Welcome



This *Catalog* contains
comprehensive information about
Metropolitan State College of Denver,
the degrees and programs it offers, and the requirements
a student must satisfy before receiving a degree.

This publication describes admissions and registration procedures, as well as services offered by the College.

General information on tuition and fees, financial aid packages

and procedures
are also covered.

Information in this Catalog is subject to change For general College information go to MSCD's Web site (www.mscd.edu).

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

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Produced by: The Office of Academic Affairs and the Office of College Communications —2007

GENERAL INFORMATION

THE COLLEGE

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

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

With its modified open admissions policy, the College 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.

- MSCD 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 MSCD, irrespective of their academic record.
- MSCD is required to serve traditional-aged students of all levels of achievement and potential. As a result, the College enrolls a rich mix of recent high school graduates and transfer students, many with excellent grades and test scores and others with more modest achievement.
- MSCD is required to be accessible to all citizens. That is why tuition has been and remains among the lowest in the state. MSCD is Colorado's best value in education.

The College is a teaching institution where 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 future achievement. The College 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.

The College awards bachelor of science, bachelor of arts, bachelor of fine arts, bachelor of music and bachelor of music education degrees. Students can choose from 51 majors and 82 minors offered through three schools: Business; Letters, Arts and Sciences; and Professional Studies. Programs range from the traditional disciplines, such as history and biology, to contemporary fields of study, such as Chicano studies and health care management. The College offers several bachelor's degree programs unique in Colorado, including aviation management, health care management, land use, meteorology, surveying and mapping, and integrated therapeutic practices. Students may also design their own degree through the Individualized Degree Program.

Students

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

Current enrollment is 21,151. Students range in age from 15 to 73 with a median age of 23. Students of color make up 24 percent of the students.

About 60 percent of students are enrolled full time. Sixteen percent are traditional students, beginning college before age 20, while 84 percent represent nontraditional age groups. Ninety-three percent of students reside in the seven counties of the Denver metropolitan area:

Adams13%	Denver
Arapahoe	Douglas8%
Boulder	Jefferson
Broomfield 4%	

6 GENERAL INFORMATION

Faculty

MSCD has nearly 431 full-time faculty. 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, 45 percent of full-time faculty are women and 19 percent represent ethnic minorities.

The College also brings real-world education into the classroom by hiring part-time faculty who work in the Denver metropolitan community and use their expertise and experience in the arts, business, communications, law, politics, the sciences and technology in their teaching.

The Campuses

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

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

The Auraria Higher Education Center's proximity to downtown Denver enables students and faculty to use the community as a learning laboratory and to connect classroom theory to the cultural, economic, social, and political practices of the city.

The College also has two satellite campus sites operated by the Extended Campus Program. Metro South, located at 5660 Greenwood Plaza Boulevard in Arapahoe County, serves the south, southeast, and southwest metropolitan areas. Metro North, located at 11990 Grant Street in Adams County, serves the north, northeast, and northwest areas. Each site is located 14 miles from the Auraria campus along the I-25 corridor.

A variety of courses are offered during the evenings and on Saturdays on the Auraria campus and at Metro South and Metro North. At least twenty-four degree programs can be completed entirely by taking courses scheduled during the evenings and weekends. MSCD offers classes in traditional formats as well as telecourses, online courses and correspondence courses. General information about these programs can be obtained from the Office of Admissions or the Academic Advising Center.

Distance Education Options

MSCD offers several options for distance education: online courses, hybrid courses (online/classroom combination), telecourses and correspondence courses.

Online education (online and hybrid) is the fastest growing distance education option at MSCD with over 4,700 students registering for one or more online classes during the Fall 2006 semester. MSCD's online courses tend to be small and highly interactive for both instructors and students. A student can complete General Studies online. For information about completing a major, minor, or certificate online, please contact the appropriate academic department. Please check with academic advisors and visit the MSCD Web site for more specific information about the online learning environment, suggested computer equipment, and other online services that are offered by the College (www.mscd.edu).

2+2 Coordinated Degree Program

The Metropolitan State College of Denver and Front Range Community College have created a program that will allow students to complete a bachelor's degree at the Front Range Community College Campus. The 2+2 Coordinated Degree Program combines the convenience of the community college with the resources of a large urban four-year college. and is located on the FRCC Westminsters Campus.

The 2+2 Coordinated Degree Program consists of:

- Two years at Front Range Community College (60 hours)
- Two years enrolled as an MSCD student, taking MSCD classes

Currently the 2+2 Coordinated Degree Program offers two major programs:

- · Major in Management
- Major in Marketing

Other programs are under development. For more information, visit the MSCD Academic Advising page at http://www.mscd.edu/~advising/infomaj.htm. Alternatively, one may go to the Front Range Advising Center and make an appointment with Dave Cisneros to fill out a Priority Admissions Application. The application fee is \$25.

Students should apply for financial aid awards through Metropolitan State College of Denver for courses taken under the 2+2 Coordinated Degree Program. A student must be admitted to the 2+2 Program and registered for MSCD courses offered on the FRCC campus to be eligible for financial aid at MSCD.

2007-2008 ACADEMIC CALENDAR

2007 Fall Semester	
Registration	April-August 17
Orientation*	
Classes start	Monday, August 20
Application for Graduation Deadline	Friday, August 31
Labor Day (campus closed)	
Monday —Wednesday before	, 1
Thanksgiving (campus open, no classes)	November 19–21
Thanksgiving Day (campus closed)	
Friday after Thanksgiving (campus open, no classes)	
Classes end	
Final exams begin	Monday, December 10
Final exams end	Saturday, December 15
Commencement	Sunday, December 16
2008 Spring Semester	
1 6	N 1 1 10
Registration	
Orientation*	
Martin Luther King, Jr. Day (campus open, no classes)	
Classes start	
Application for Graduation Deadline	
Spring Break	
Classes end	· · ·
Final exams begin	
Final exams end	
Commencement (tentative**)	Sunday, May 18

8 DEGREES AND PROGRAMS

2008 Summer Semester	
Registration	April-May 25
Orientation*	April-May 25
Memorial Day (campus closed)	Monday, May 26
Classes start	Tuesday, May 27
Application for Graduation Deadline	Friday, June 6
Independence Day (campus closed)	Friday, July 4
Classes end	Saturday, August 2
2008 Fall Semester	
Registration	
Orientation*	
Classes start	
Application for Graduation Deadline	Friday, August 29
Labor Day (campus closed)	Monday, September 1
Monday—Wednesday before	
Thanksgiving (campus open, no classes)	November 24-26
Thanksgiving Day (campus closed)	Thursday, November 27
Friday after Thanksgiving (campus open, no classes)	Friday, November 28
Classes end	Saturday, December 6
Final exams start	
Final exams end	
Commencement (tentative**)	Sunday, December 14

^{*}For information, call 303-556-6931

DEGREES AND PROGRAMS

Metropolitan State College of Denver is organized into three schools. The schools are listed below with the majors and minors offered by each. The curriculum requirements for each of the programs are described in the *Catalog* in the special sections prepared by each school. Programs marked with an asterisk (*) do not require completion of a minor.

	Major	Minor	Degree
School of Business			
Accounting*	X	X	B.S.
Computer Information Systems*	X	X	B.S.
Economics			
Finance*	X	X	B.S.
Financial Services			
General Business		X	
International Business			
Management*	X	X	B.S.
Marketing*	X	X	B.S.
School of Letters, Arts and Sciences			
African and African-American Studies	v	v	ВΛ
Anthropology			
Art*			.г.А./ D.А.
Art History, Theory and CriticismBehavioral Science			DΛ
Biology			
Chemistry	A	X	D.A./ D.S.

^{**}Call 303-556-6226 to confirm time and location for commencement.

	Maior	Minor	Degree
Computer Science	X	X	B.S.
Criminalistics		X	
Digital Media		X	
English Environmental Science*	X	X	B.A.
Environmental Studies.			Б.5.
Family Support in Social Work			
French			
Geography			
Geology			
German			
Gerontology	v	X	DΛ
Human Development	X	X	R A
Interdisciplinary Legal Studies		X	D.//1.
Journalism	X	X	B.A.
Language		X	
Linguistics		X	
Land Use*			
Mathematics			
Modern Languages Option I (French, German, Spanish)			
Modern Languages Option II*	X		B.A.
Music	X	x I	B.A./B.M.
Music Education*	X		
Native American Studies			
Parent Education ²		X	
Philosophy	X	X	B.A.
Photojournalism	v	X	RA/RS
Political Science			
Psychology			
, 0,		Minor	
Public Administration		X	
Public Relations			
Religious Studies		X	
Social Work*	X	X	B.S.
SociologySpanish			B.A.
Speech Communication			R A
Speech, Language, Hearing Sciences		X	D.71.
Studio Art		X	
Training and Organizational Development		X	
Theatre	X	x. B	.A./B.F.A.
Women's Studies (Institute for Women's Studies			
and Services)		X	
School of Professional Studies			
Airframe and Powerplant Mechanics			рс
Aviation Management	Α Υ	X v	D.S. B S
Bilingual/Bicultural Education		X	D.o.
Civil Engineering Technology ⁺			B.S.
Criminal Justice and Criminology*	X	X	B.S.
Digital Media		X	
Early Childhood Education		X	
Eating Disorders	v	X	D.C
Electrical Engineering Technology ⁺	A	X	в.б.
Gerontology			
Health and Safety.			
,			

10 DEGREES AND PROGRAMS

	,	Minor	
Health Care Management			B.S.
Holistic Health & Wellness Education Multi-Disciplinary			
Hospitality, Tourism, and Events*	X		B.A.
Hotel Administration			
Human Performance and Sport	X	X	B.A.
Human Services*	X	X	B.S.
Industrial Design*	X		B.S.
Integrated Therapeutic Practices	X		B.S.
Linguistically Diverse			
Mechanical Engineering Technology+			B.S.
Meeting Administration			
Network Communications		X	
Nursing (upper-division for RNs)*			B.S.
Nutrition			2.0.
Parent Education ²			
Private Pilot			
Recreation Professions.			BS
Recreation Services.			D.3.
Restaurant Administration			
Secondary Education			
			ВΛ
Special Education			
Surveying and Mapping			
Technical Communication			Б.5.
Training and Organizational Development	• • • • • • • •	X	
Travel Administration		X	
Other			
Individualized Degree Program ¹	v	37	D A /D C
Together Licensing Feels Childheed Florenters	Λ	X	D.A./ D.S.
Teacher Licensing: Early Childhood, Elementary,		l	
Special Education, K-12, and SecondaryLic	ensure on	ıy	

⁺Concentration may replace the minor.

The Individualized Degree Program (IDP) offers students the opportunity to design specific, interdisciplinary degree programs to meet educational goals not met by other majors or minors at the College. Some examples of areas of study include: International Studies; Child & Family Advocacy, Web Development, Emergency Services Management, Creative Arts for the Elderly, Cultural Resource Management, Nonprofit Administration in Urban Communities, Environmental Studies and Public Administration, and Computer Security.

More information about the program is available on page 53 of this catalog, from the Center for Individualized Learning (St. Francis Center, 2nd floor, room 10, 303-556-8342) and at http://www.mscd.edu/~cil/.

Accreditations / Approvals

Metropolitan State College of Denver is accredited by The Higher Learning Commission and is a member of the North Central Association of Colleges and Schools (30 North LaSalle St., Suite 2400, Chicago, IL 60602-2504, 1-800-621-7440). Individual academic programs within the following areas are accredited or approved by the following agencies:

Program	Accreditation/Approval Agency
Accounting**	Colorado State Board of Accountancy
Adult Fitness/Exercise Science***	American College of Sports Medicine

¹see pages 53 and 54 of this Catalog

 $^{^2\}mathrm{This}$ minor may be discontinued. Please contact the Department of Human Services. Individualized Degree Program

Athletic Training Education Program* Commission on Accreditation of Allied Health Education Programs (CAAHEP) 35 East Whacker Dr., Suite 1970 Chicago, IL 60601 (312) 553-9355 www.caahep.org Aviation & Aerospace Science** Federal Aviation Adminstration (FAA) Center for Addiction Studies* International Coalition for Addiction Studies Education (INCASE) Chemistry** American Chemical Society Ecketrical Engineering Technology* Mechanical Engineering Technology. Application Board for Engineering and Technology, Inc. Technology Accreditation Administration Technology. Mechanical Engineering Technology. Application Technology. Application Board for Engineering and Technology. In Accreditation Ordinal Engineering and Technology. Application Technology. Application Technology. Application Board for Engineering and Technology. Technology. Application Doration Technology. Appl		
Center for Addiction Studies* International Coalition for Addiction Studies Education (INCASE) Chemistry** American Chemical Society Technology* Electrical Engineering Technology* Mechanical Engineering Technology* Mechanical Engineering Technology* Mechanical Engineering Technology* Mechanical Engineering Technology* Computer Science* Computer Science* Computing Accreditation Commission of ABET (see above) Drug, Alcohol, Addictive Behavior Counselor** Surveying and Mapping* Applied Science Accreditation Commission of ABET (see above) Criminalistics Program in Chemistry** Forensic Science Education Program Accreditation Commission Health Care Management** Association of University Programs in Health Administration 730 11th Street, NW 4th Floor, Washington, D.C. 20001-4510 Phone: 202-638-448 Fax: 202-638-3429 www.aupha.org email: aupha@aupha.org Recreation Professions* American Association for Physical Activity and Recreation Human Services** Council for Standards in Human Services Education Art* National Association of Schools of Art and Design Industrial Design* National Association of Schools of Music National Association of Schools of Music National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Athletic Training Education Program*	Programs (CAAHEP) 35 East Whacker Dr., Suite 1970
Chemistry** American Chemical Society Civil Engineering Technology* Electrical Engineering Technology* Mechanical Engineering Technology* Computer Science* Computing Accreditation Commission of ABET (see above) Drug, Alcohol, Addictive Behavior Counselor** Surveying and Mapping* Applied Science Accreditation Commission of ABET (see above) Criminalistics Program in Chemistry** Forensic Science Education Program Accreditation Commission Health Care Management** Association of University Programs in Health Administration 730 11th Street, NW 4th Floor, Washington, D.C. 20001-4510 Phone: 202-638-1448 Fax: 202-638-3429 www.aupha.org Recreation Professions* American Association for Physical Activity and Recreation Human Services** Council for Standards in Human Services Education Art* Industrial Design* National Association of Schools of Art and Design 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Aviation & Aerospace Science**	Federal Aviation Adminstration (FAA)
Civil Engineering Technology* Electrical Engineering Technology* Mechanical Engineering Technology* Drug, Alcohol, Addictive Behavior Counselor** Computing Accreditation Commission of ABET (see above) Colorado Department of Health - Center for Addiction Studies edove) Criminalistics Program in Chemistry** Forensic Science Accreditation Commission of ABET (see above) Criminalistics Program in Chemistry** Forensic Science Education Program Accreditation Commission Health Care Management** Association of University Programs in Health Administration 730 11th Street, NW 4th Floor, Washington, Dc. 20001-4510 Phone: 202-638-1448 Fax: 202-638-4429 www.aupha.org email: aupha@aupha.org Recreation Professions* American Association for Physical Activity and Recreation Human Services** Council for Standards in Human Services Education Art* Industrial Design* National Association of Schools of Art and Design 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Center for Addiction Studies*	
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Surveying and Mapping* Applied Science Accreditation Commission of ABET (see above) Criminalistics Program in Chemistry** Forensic Science Education Program Accreditation Commission Health Care Management** Association of University Programs in Health Administration 730 11th Street, NW 4th Floor, Washington, D.C. 20001-4510 Phone: 202-638-1448 Fax: 202-638-3429 www.aupha.org email: aupha@aupha.org Recreation Professions* American Association for Physical Activity and Recreation Human Services** Council for Standards in Human Services Education Art* National Association of Schools of Art and Design 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Computer Science*	Computing Accreditation Commission of ABET (see above)
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Health Care Management** Association of University Programs in Health Administration 730 11th Street, NW 4th Floor, Washington, D.C. 20001-4510 Phone: 202-638-1448 Fax: 202-638-3429 www.aupha.org email: aupha@aupha.org Recreation Professions* American Association for Physical Activity and Recreation Human Services** Council for Standards in Human Services Education Art* National Association of Schools of Art and Design 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Surveying and Mapping*	
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Human Services** Council for Standards in Human Services Education Art* Industrial Design* Industrial Design* Inspect Design	Health Care Management**	730 11th Street, NW 4th Floor, Washington, D.C. 20001-4510 Phone: 202-638-1448 Fax: 202-638-3429
Art* Industrial Design* National Association of Schools of Art and Design 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education Teacher Education* National Council for Accreditation of Teacher Education; Colorado Department of Education	Recreation Professions*	American Association for Physical Activity and Recreation
Industrial Design* 11250 Roger Bacon Drive, Suite 21, Reston, VA Phone: 703-437-0700 Fax: 703-437-6312 Music* National Association of Schools of Music Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Human Services**	Council for Standards in Human Services Education
Nursing* National League for Nursing Accrediting Commission (NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education Teacher Education* National Council for Accreditation of Teacher Education; Colorado Department of Education		11250 Roger Bacon Drive, Suite 21, Reston, VA
(NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006 Phone: 212-363-5555, Ext. 153 Social Work* Council on Social Work Education National Council for Accreditation of Teacher Education; Colorado Department of Education	Music*	National Association of Schools of Music
Teacher Education* National Council for Accreditation of Teacher Education; Colorado Department of Education	Nursing*	(NLNAC) 61 Broadway, 33rd Floor, New York, NY 10006
Colorado Department of Education	Social Work*	Council on Social Work Education
*Accreditation / **Approval / ***Endorsed	Teacher Education*	
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Certificates of Completion

Certificate programs provide opportunities to successfully complete a series of five to eight academic credit courses that focus on a particular area of career interest. Each certificate program is designed to stand alone or merge with your degree program major or minor. The certificate title and date of award will appear on your transcript. The certificate program is coordinated by the Office of Academic Affairs, 303-556-3040.

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

School of Business

Database Analyst	. 90
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Activiti Airpor Corpor Electric Engine Geront High R	tes Assistant for Older Adults t Management. rate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). cisk Youth Studies	227 294 237 238 240 262
Activiti Airpor Corpor Electric Engine Geront High R Multin	ies Assistant for Older Adults t Management. rate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). cisk Youth Studies nedia Production.	227 294 237 238 240 262 293
Activiti Airpor Corpor Electric Engine Geront High R Multin Networ	tes Assistant for Older Adults t Management. rate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). isk Youth Studies nedia Production. rk Communications.	227 294 237 238 240 262 293 236
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Activiti Airpor Corpor Electric Engine Geront High R Multin Networ	ies Assistant for Older Adults t Management. rate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). isk Youth Studies nedia Production. rk Communications. ofit Organization Administration. ing Certificates: Cadastral Surveying	227 294 237 238 240 262 293 236 263
Activiti Airpor Corpor Electric Engine Geront High R Multin Networ	ies Assistant for Older Adults t Management. cate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). cisk Youth Studies nedia Production. ck Communications. ofit Organization Administration. ing Certificates: Cadastral Surveying Engineering/Construction Surveying.	2277 2944 2377 2388 2400 2622 2933 2366 2633
Activiti Airpor Corpor Electric Engine Geront High R Multin Networ	tes Assistant for Older Adults t Management. cate Video Production cal Engineering Technology. ering Fundamentals. cology (Professional Services Orientation). cisk Youth Studies nedia Production. ck Communications. chit Organization Administration. ing Certificates: Cadastral Surveying Engineering/Construction Surveying. Land Surveying.	227 294 237 238 240 262 293 236 263 286 285
Activiti Airpor Corpor Electric Engine Geront High R Multin Networ	ies Assistant for Older Adults t Management. cate Video Production cal Engineering Technology. ering Fundamentals. ology (Professional Services Orientation). cisk Youth Studies nedia Production. ck Communications. ofit Organization Administration. ing Certificates: Cadastral Surveying Engineering/Construction Surveying.	227 294 237 238 240 262 293 236 263 285 285 285
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BASIC DEGREE REQUIREMENTS

Students are responsible for full knowledge of the provisions and regulations pertaining to their program contained in this *Catalog* and elsewhere. The final responsibility for completing the requirements for a degree rests with the student and it is recommended that s/he seek advice. Students should never assume that they have approval to deviate from a stated requirement without a properly signed statement to that effect. Please refer to the Academic Policies and Procedures section in this *Catalog*.

REQUIREMENTS FOR ALL BACHELOR'S DEGREES

To earn a bachelor of science, a bachelor of arts, bachelor of music education, or a bachelor of fine arts degree, a student must satisfy the following minimum requirements, plus any others stipulated for the degree for which a student is a candidate. Please refer to the Academic Policies and Procedures section in this *Catalog*.

- Complete a minimum of 120 semester hours with a cumulative GPA of 2.0 or higher for all course work
- Complete at least 40 semester hours in upper-division courses (3000- and 4000-level courses).

- Complete all General Studies requirements listed for the degree and major.
- Complete a three-hour Multicultural course requirement.
- Complete a three-hour Senior Experience course requirement. This course must be taken at MSCD.
- Complete one subject major consisting of not less than 30 semester hours. With certain exceptions (see the Degrees and Programs section on page 8 of this Catalog), complete a minor consisting of at least 18 semester hours. If a student completes two majors, the second major satisfies the minor requirement. Completing two concentrations under one major does not constitute the completion of two majors. Completion of two majors does not result in two degrees or diplomas. Coursework used to meet requirements for one major or minor may not be used to meet requirements for another major or minor. Students may not major and minor in the same discipline and are encouraged to obtain verification from an advisor if uncertainty exists.
- Complete all special requirements of a department and school.
- · Achieve a cumulative GPA of 2.0 or higher in all MSCD courses that satisfy the requirements for the major, and for all MSCD courses that satisfy requirements for a minor. Students should check with an advisor for special GPA program requirements.
- File an Application for Graduation with the Office of the Registrar by the following deadlines: Fall 2007—August 31, 2007; Spring 2008—February 1, 2008; Summer 2008—June 6, 2008.
- Academic residency (classroom credit) requirements:
 - Complete a minimum of 30 semester hours of academic credit at MSCD, including the last 12 semester hours applicable to the degree.
 - Complete at least 8 upper-division (3000- and 4000-level courses) semester hours of the major and 3 upper-division semester hours of the minor at MSCD (classroom credit).
 - · Students should be aware that University of Colorado at Denver and Health Sciences Center pooled courses will not satisfy academic residence requirements at MSCD. Physics (PHY) courses are excluded from this restriction. To use an MSCD-UCDHSC pooled course for the last 12 hours residency requirement a student must (1) complete a minimum of 30 hours credit at MSCD prior to graduation and (2) obtain permission from the major or minor department prior to taking a pooled course to use it to meet a requirement in the major or minor program.

Credit Limitations

- No more than 30 semester hours of omnibus-numbered courses may be applied toward graduation requirements, except for music.
- No more than 30 semester hours taken by correspondence may be applied toward a bachelor's
- No more than 4 semester hours in human performance and leisure activity (HPL) or varsity sports (ATH) courses will be counted toward a bachelor's degree for students who are not majoring in human performance and sport, except for Recreation Studies.
- No more than 7 semester hours in music ensemble courses will be counted toward a bachelor's degree for students who are not majoring in music.

Student Bill of Rights

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

- 1. Students should be able to complete their baccalaureate programs in no more than one hundred twenty credit hours unless there are additional degree requirements recognized by the commission;
- 2. A student can sign a four-year graduation agreement that formalizes a plan for that student to obtain a degree in four years, unless there are additional degree requirements recognized by the commission. Students interested in signing a four-year agreement must be admitted to MSCD by July 1, must work with the Advising Center during July, and register for 15 credits approved by the Advising Center by July 30. Students should go to the Advising Center for details.
- 3. Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;

14 DEGREES AND PROGRAMS

- 4. Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education;
- 5. Students, upon successful completion of core general education courses, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education;
- 6. Students have a right to know if courses from one or more public higher education institutions satisfy the students' degree requirements;
- 7. A student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferable.

REQUIREMENTS FOR A SECOND DEGREE

For an additional bachelor's degree, students must comply with the following:

- The first bachelor's degree must be recognized by Metropolitan State College of Denver.
- General Studies will be considered complete unless deficiencies exist according to the major department.
- Students must complete all requirements for a new major with a minimum of eight MSCD academic upper-division semester hours in the major department.
- Students do not need to complete a minor unless specifically required by the major department for the contemplated degree.
- Students must satisfy the Multicultural and Senior Experience course requirements for the second degree.
- Students must spend at least two additional semesters in residence.
- Students must complete a minimum of 30 semester hours of MSCD classroom credit after the awarding of the previous degree.
- Credit limitations for a bachelor's degree also apply to the second degree. (See College Opportunity Fund under Tuition & Fees for specific limitations.)
- An Application for Graduation must be submitted to the Office of the Registrar by the deadline stipulated on MSCD's Web site under Academic Calendar (http://www.mscd.edu/ academic/acal.htm.)

GRADUATION CHECKLIST

- Review the Requirements for All Bachelor Degrees
- Review the Academic Policies and Procedures (pertaining to CAPP, Graduation, Diplomas and Commencement, and Honors and Awards)
- Obtain a CAPP Compliance Report from their major department
- If necessary, correct any discrepencies on CAPP report
- File and Application for Graduation by the deadline for the term of graduation (Check deadlines at http://www.mscd.edu/academic/acal.htm
- Ensure correct address is on file with the Office of the Registrar

THE GENERAL STUDIES PROGRAM

Philosophy of the General Studies Program

Metropolitan State College of Denver seeks to prepare its graduates for a lifetime of learning, which, in our changing and complex society, requires focused expertise (such as that provided by a major area of study) and the ability to communicate with and learn from experts in other fields. Undergraduate education fosters the critical thinking necessary for the exploration of unfamiliar disciplines and for the synthesis of learning and exposes students to the richness and variety of the intellectual universe.

General Studies Information

Students must use a single catalog to meet all degree requirements, including those in the General Studies, major and minor. As a consequence, many General Studies requirements and policies described in this Catalog may be followed by students using earlier catalogs.

State Guaranteed General Education Courses

Certain General Studies courses are approved as state guaranteed general education courses. This designation means that the course is transferable to general education or to electives at all Colorado public institutions. There are restrictions on the number of courses that can be taken, and some majors require specific general education courses. For details, go to page 55 of this Catalog, consult an advisor in your major or go to www.state.co.us/cche/gened/gtpathways/index.pdf.

General Studies Goals

The General Studies Program is designed to help graduates achieve the following competencies. Students at Metropolitan State College of Denver should be able to:

- write and speak with clarity;
- read and listen critically;
- · draw conclusions from quantitative data;
- recognize faulty reasoning;
- · organize ideas; and
- communicate with experts in other disciplines and learn from them.

MSCD students should:

- have an open attitude toward different approaches to problems;
- · have an informed awareness of the principal human achievements in history, arts and letters, society, and science;
- and be introduced to the basic methods, knowledge, problems or attitudes characteristic of a field.

Structure of the General Studies Program

The General Studies Program is structured to foster the development of skills and to encourage students to use their mastery of skills to explore knowledge in a variety of disciplines. The General Studies Program provides two levels of experience:

Level I-Skills

Level I courses provide students with the basic skills of reading and listening critically, recognizing faulty reasoning, drawing conclusions from quantitative data, organizing ideas and writing and speaking with clarity.

Level II-Breadth of Knowledge

Level II courses introduce students to the basic methods, knowledge, problems or attitudes characteristic of a field: encourage in students an open attitude toward different approaches to problems, enable students to communicate with experts in other disciplines and learn from them and cultivate in students an informed awareness of the principal achievements in history, arts and letters, social science and science. In addition, in Level II courses students will continue to develop their skills in language and mathematics.

Distribution and Credit Requirements

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

CATEGORY SEMESTER HOURS
Level I*
Composition 6
Mathematics
Communications
Level II**
Historical
Arts and Letters
Social Sciences
Natural Science
Total***

^{*}A transfer course or courses judged to be similar in skill development and content to a Level I course will satisfy an individual Level I course requirement. Equivalency will be determined by the department offering the Level I course.

Basic Rules:

- Only approved courses may be used to satisfy the General Studies requirements. A listing of these
 courses can be found in the *Catalog Addendum: General College Requirements* which contains all
 approved General Studies, Multicultural and Senior Experience courses. The document is available
 online and from academic departments, the Academic Advising Center and Academic Affairs (CN
 318). This document also indicates which of the courses are approved as state guaranteed general
 education courses.
- General Studies courses need not be counted toward General Studies requirements. They may be taken as electives or to satisfy requirements in the major or degree program.
- Departments or programs may specify, by prefix and number, some General Studies courses in addition to courses required for the major or a professional credential. Check with your departmental advisor.

ADMISSIONS

Admission Requirements

The College uses two categories for classifying applicants: those who are 19 years old and younger and those who are 20 or older. Based on the College's modified open admission system, each category has its own admission requirements and procedures.

MSCD students who have not attended the College for three consecutive semesters need to submit an application for readmission. For more information, see Admission of Previously Enrolled Students on page 16 and 20 of this *Catalog*.

^{**}One-hour deviations in the Level II categories may be allowed.

^{***}Except for Mathematics majors and minors, a student's completed General Studies Program must contain at least 33 semester hours.

Freshman Admission Eligibility Index for Applicants 19 Years Old or Younger

	SAT	400-	500- 540	550- 600	610-	690-	750-	830	840-	880-	930-	1000	1010-	1050- 1070 17	1080- 11	1120- 1160- 1150 1190	0- 1200- 0 1230	1240- 10 1270	0- 1280- 0 1300	1310-	1350-	1400-	1440-	1490-	1550-	1600
,	ACT	11 or	12	13	41	15	16	17	18	19	20	21	22	23	24	25 26	27	28	29	30		32	33	34	35	36
HS Rank	HS GPA	Below	_	:		:	2	:	2	:				-	-	-	-	-	\dashv	3	;	}	3	;	3	3
0-1	0.0-1.3	45	47	49	51	53	55	22	59	19	63	65 (70 7	72 74	74 76	78	8	82	84	98	88	06	93	95	26
2-3	1.4-1.5	49	51	53	55	57	59	61	63	9	29	69	72	74	76 78	80	82	28	98	88	96	92	94	26	66	101
4	1.6	51	53	55	57	59	19	63	99	29	69	71	74	76 7	78 80	0 82	28	98	88	8	92	94	96	66	101	103
2-6	1.7	52	54	56	58	09	62	2	99	89	70	72	75	77 77	79 81	1 83	82	87	88	91	93	95	6	100	102	104
7-8	1.8	54	95	58	09	62	2	99	89	20	72	74		3 62	83	3 85	87	89	9	93	95	26	66	102	104	106
9-10	1.9	99	58	09	62	2	99	89	70	72	74	76	79	81	83 85	5 87	89	91	93	95	6	66	101	104	106	108
11-12	2.0	28	99	62	29	99	89	70	72	74	9/	78	18	83	85 87	7 89	16	93	95	6	66	101	103	106	108	110
13-15	2.1	09	62	25	99	89	70	72	74	9/	78	80	83	85 8	87 89	9 91	93	95	6	66	101	103	105	108	110	112
16-18	2.2	61	63	99	29	69	71	73	75	77	79	81	84	98	88 90	0 92	98	96	86	100	102	104	106	109	=	113
19-22	2.3	63	99	29	69	71	73	75	77	79	81	83	98	88	90 92	2 94	96	86	100	102	104	106	108	111	113	115
23-26	2.4	99	29	69	71	73	75	77	79	18	83	85	88	06	92 94	4 96	86	100	102	104	106	108	110	113	115	117
27-30	2.5	29	69	71	73	75	77	79	81	83	85	87	06	92 9	94 96	98	100	0 102	104	106	108	110	112	115	117	119
31-34	2.6	69	71	73	75	77	79	81	83	85	87	68	92	94	96 98	8 100	102	2 104	106	108	110	112	114	117	119	121
35-38	2.7	70	72	74	76	78	80	82	84	98	88	06	93	95 5	97 99	101	103	3 105	5 107	109	111	113	115	118	120	122
39-43	2.8	72	74	9/	78	80	82	84	98	88	8	92	95	6 26	99 1(101	3 105	5 107	7 109	Ξ	113	115	117	120	122	124
44-48	2.9	74	76	78	80	82	84	98	88	06	92	94	6 26	1 1	101	103 105	5 107	7 109	111	113	115	117	119	122	124	126
49-53	3.0	76	78	80	82	84	98	88	06	92	94	96	. 66	101	103 10	105 107	109	111	113	115	117	119	121	124	126	128
54-58	3.1	78	80	82	84	98	88	06	92	94	96	. 86	101	103	105 10	107 109	111	1 113	3 115	117	119	121	123	126	128	130
59-65	3.2	79	81	83	85	87	68	91	93	95	26	. 66	102	104	106 10	108 110) 112	2 114	116	118	120	122	124	127	129	131
63-67	3.3	81	83	85	87	68	91	93	95	26	66	101	104	106	108	110 112	114	4 116	5 118	120	122	124	126	129	131	133
68-72	3.4	83	85	87	68	16	93	95	26	66	101	103	. 901	108	110 1.	112 114	1116	6 118	3 120	122	124	126	128	131	133	135
73-76	3.5	85	87	68	16	93	95	26	66	101	103	105	108	110 1	112 1	114 116	5 118	8 120) 122	124	126	128	130	133	135	137
77-81	3.6	87	89	91	93	95	26	66	101	103	105	107	. 011	112 1	114 1.	116 118	3 120	0 122	124	126	128	130	132	135	137	139
82-85	3.7	88	90	26	94	96	98	100	102	104	106	108	111	113 1	115 1	117 119	121	1 123	3 125	127	129	131	133	136	138	140
86-89	3.8	06	92	94	96	86	100	102	104	106	108	110	113	115 1	117 1	119 121	123	3 125	5 127	129	131	133	135	138	140	142
90-92	3.9	92	94	96	86	100	102	104	106	108	110	112	. 115	117 1	119 12	121 123	3 125	5 127	7 129	131	133	135	137	140	142	144
93-100	4.0	94	96	86	100	102	104	106	108	110	112	114	117	119	121 13	123 125	5 127	7 129	131	133	135	137	139	142	144	146
																						Source: (Colorado Co	Source: Colorado Commission on Higher Education	n Higher Ec	ucation

How to read this chart

Find your high school class percentile rank and grade point or ACT score along the top and locate the corresponding bottom of the chart. Line up that number with your SAT average on the left. Choose the number closest to the number on the chart. This is your index score.

If your score is less than 85 but is 76 or greater, admission will be considered on a case-by-case basis.

If your index score is 85 or greater, and you have an ACT English subscore of 18 or above and a reading subscore of 17 or above (or an SAT verbal score of 440 or above), you are **guaranteed admission**.

Application Deadline

To find out the application deadline for your intended term of enrollment, please visit www.mscd.edu/admissions.htm. For the best possible selection of courses, students are advised to apply early. Refer to page 7 of this *Catalog* for important dates.

APPLICANTS 19 YEARS OLD OR YOUNGER

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

Freshmen (first-time college students)

- Applicants with Colorado Commission on Higher Education (CCHE) index scores of 76 or greater will be considered for admission. In addition, the graduating classs of 2008 will also need to fulfill the Higher Education Admission Requirements. For a list of these requirements (www.state.co.us/cche/academic/admissions.html) and a CCHE index chart, see page 17 of this catalog. Those with index scores below 85 are strongly encouraged to submit letters of recommendation and a personal statement, and must complete their application files by the posted Admissions Review deadline. Otherwise, they will be considered for the following term.
- MSCD guarantees admission to applicants with a CCHE index score of 85 or greater, an ACT
 English subscore of 18 or above and a reading subscore of 17 or above (or an SAT critical reading
 of 440 or above), and who have fulfilled the Higher Education Admission Requirements, and who
 apply by the published application deadline.
- Applicants must request that the following credentials be mailed directly to the Office of Admissions from the high school or testing agency before an admission decision can be made:
 - ⇒ ACT or SAT test results
 - ⇒ Official high school transcript with GPA and class rank
- This information may be submitted at the end of the sixth, seventh, or eighth semester of high school. An official, final transcript with date of graduation is required no later than the fourth week of the term of enrollment. Students should request the transcript and verify that the high school record with date of graduation has been received by the Office of Admissions.
- Applicants who have not graduated from high school but have passed and received the Colorado General Educational Development (GED) certificate or its equivalent will be accepted. ACT or SAT test results are not required with a GED. Official GED certificates must be mailed directly to the Office of Admissions by the issuing agency before an applicant can be accepted.

College Transfers

- Applicants with 30 or more *transferable* semester hours completed with at least a 2.3 cumulative GPA will be offered admission. Students with fewer than 30 hours will be considered on an individual basis, based on high school GPA, ACT or SAT scores and college work completed.
- Applicants who have less than a cumulative 2.3 GPA from all colleges and universities attended
 will be considered on an individual basis that includes a careful review of all credentials. Letters
 of recommendation and a personal statement are strongly recommended. Such applicants must
 complete their application files by the posted Admissions Review deadline. Otherwise, they will be
 considered for the following term.
- Applicants must request that the following credentials be mailed directly to the Office of Admissions from the high school, testing agency and/or college or university:
 - ⇒ ACT or SAT test results
 - ⇒ Official high school transcript with GPA and class rank

- Official transcript from each college or university attended or currently attending
- All required credentials must be received before a final admission decision can be made.

APPLICANTS 20 YEARS OF AGE OR OLDER

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

Freshmen (first-time college students)

- Applicants will be admitted to MSCD upon indicating on the Application for Admission that they have graduated from high school or that they have passed and received a Colorado General Educational Development (GED) certificate or the equivalent. GEDs issued through the military will be considered on an individual basis.
- By signing the Application for Admission, degree-seeking applicants are certifying that they will request either a high school transcript with date of graduation or GED test scores be mailed directly to the Office of Admissions. Degree-seeking students will not be permitted to register for a second semester until this official credential is received.
- The ACT or SAT is not required for admission but, if taken within five years of the semester start date, is highly recommended for advising and course placement purposes.

College Transfers

- Applicants will be admitted to MSCD, regardless of their cumulative college GPA, if they indicate on the Application for Admission that they have graduated from high school or that they have passed and received a Colorado General Educational Development (GED) certificate or its equiva-
- By signing the Application for Admission, degree-seeking applicants are certifying that they will request that either a high school transcript with date of graduation or GED test scores be mailed directly to the Office of Admissions. In place of these credentials, official college transcripts showing completion of 30 or more transferable semester credit hours with grades of "C" or better will be accepted. College transfer students should request to have college transcripts mailed directly to the Office of Admissions for transfer credit evaluation. Degree-seeking applicants are required to have all college and university transcripts on file to receive a complete evaluation.
- The ACT or SAT is not required for admission but, if taken within five years of the semester start date, is highly recommended for advising and course placement purposes.

APPLICATION INSTRUCTIONS

Applications for Admission are considered in the order in which they are received each semester. All credentials received by the College become the property of MSCD and will not be returned to the student. It is the responsibility of the applicant to notify the Office of Admissions of any changes to the application prior to the first day of classes. If changes are not reported to the Office of Admissions, the registration process could be delayed for subsequent semesters. Failure to report academic changes may result in rejection, dismissal and/or loss of credit. International (visa) applicants should refer to the Admission of International Students section on page 22 of this Catalog.

To apply for admission:

- Applications can be submitted online at www.mscd.edu or are available from Metropolitan State College of Denver, Office of Admissions, Campus Box 16, P.O. Box 173362, Denver, CO 80217-3362, Central Classroom Building, 1st floor, 303-556-3058.
- A \$25 nonrefundable application fee (\$40 for international applicants) is required with the Application for Admission. Readmit applicants are not required to submit an application fee.
- It is the student's responsibility to request that all required official credentials be mailed directly from the issuing institution or agency to the Office of Admissions. Hand-carried documents will not be accepted.

- Although an applicant's college record may be summarized on one transcript, an official transcript from each institution attended is required.
- For information on obtaining records and receiving credit for Advanced Placement (AP), International Baccalaureate (IB), the College-Level Examination Program (CLEP) and military training or other training, see Alternative Credit Options on page 43 of the *Catalog*.
- The Application for Admission and all credentials received by the College will be valid for two semesters beyond the term of application. After that time the files will no longer be maintained for students who do not enroll. Applicants wishing to attend MSCD after this period must begin the admission process again, including re-mailing all credentials and the \$25 application fee.

Admission of Previously Enrolled Students (Readmit Students)

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

Readmit students should:

- Submit a completed Application for Admission. *No application fee is required for readmission.*
- Submit transcripts from institutions attended since last attending MSCD (if degree-seeking). If
 the student was not previously degree-seeking, then the student must submit transcripts from all
 institutions attended.

Students who are returning after five years of absence from the College are required to resubmit all credentials.

Admission of Nondegree Students

The nondegree student classification meets the needs of students 20 years of age or older who wish to take college courses but who do not currently intend to work toward a baccalaureate degree at MSCD. With the exception of high school students who have completed the approval process, nondegree students must have graduated from high school or received a GED to qualify for admission.

Nondegree students are not eligible for financial aid, nor will any college transcripts submitted be evaluated for transfer credit. Students may change to degree-seeking status by completing a Status Change Request form and requesting that all required official credentials be mailed directly from the issuing institution or agency to the Office of Admissions.

Admission Notification

Once admitted, students will be mailed instructions regarding course registration and other relevant information. All incoming students new to MSCD are required to attend an orientation session. After orientation, first-time college students and transfer students 19 years old or younger are also required to meet with an academic advisor. Depending upon a student's performance on the ACT or SAT, assessment tests may also be required. No tuition deposit is required.

Students denied admission may appeal the decision by submitting a letter of appeal to the Office of Admissions, along with new and compelling academic information, letters of recommendation and other supportive documentation.

ADDITIONAL ADMISSION PROGRAMS

Summer Only

Applicants 19 years old or younger who have graduated from high school or have received a General Educational Development (GED) certificate and are applying for the summer semester may be admitted under a provisional status. These applicants are not required to submit admission credentials and are not eligible for financial aid. Summer Only students who wish to continue for the fall or spring

semester must meet stated admission requirements and submit a Status Change Request form to be considered.

High School Concurrent Enrollment Programs Postsecondary Enrollment Options and Fast Track Programs

The Postsecondary Enrollment Options (PSEO) and Fast Track are sponsorship programs enacted by state law in 1988 that provide high school juniors and seniors with the opportunity to take college classes for both high school and college credit. These programs are intended to provide high school students with an alternative learning environment.

To participate, students must first seek approval from their high school and school district. The district determines the number of credit hours the student may take and makes the financial arrangements. PSEO students are responsible for payment of all tuition and fees by the College deadline. They are later reimbursed by their school districts for tuition (not fees) for up to two courses per semester, providing that they successfully complete these classes with grades of C or better. Fast Track students are not limited to two courses, and the school districts pay tuition (not fees) at the time they register. To apply to the PSEO or Fast Track Program, a student must submit the following:

- High School Concurrent Enrollment form, including student, parent, school district and college administrator signatures
- Completed MSCD admission application with the required \$25 application fee

Upon receipt of these documents, the student will be admitted into the PSEO or Fast Track Program. ACT scores, SAT scores or assessment tests are required to access many classes.

Student Education and Enrichment Program

The Student Education and Enrichment (SEE) Program is designed to supplement a student's existing education through early participation in college-level classes. This advanced program should not be interpreted as an alternative to high school completion but is, instead, a cooperative college/high school effort to provide educational enrichment and early college attendance to qualified Colorado high school juniors and seniors. Students who participate in the SEE Program are fully responsible for tuition and fees.

To apply for admission through the SEE Program, the student must submit the following documents:

- High School Concurrent Enrollment form, including student, parent, school district and college administrator signatures
- Completed MSCD admission application with the required \$25 application fee

Upon receipt of these documents, the student will be admitted into the SEE Program. ACT scores, SAT scores or assessment tests are required to access many classes.

Western Undergraduate Exchange

Through the Western Undergraduate Exchange (WUE), students in western states (AK, AZ, CO, HI, ID, MT, NV, NM, ND, OR, SD, UT, WA, WY) may enroll in many out-of-state two-year and four-year college programs at a reduced tuition level: 150 percent of the institution's regular resident tuition. WUE tuition is considerably less than non-resident tuition.

At MSCD, WUE students pay 150 percent of the student's share of Colorado resident tuition plus mandatory fees. In addition, WUE students, being non-residents, are not eligible for the state contribution to tuition, otherwise known as the College Opportunity Fund (COF) stipend. Thus, WUE participants must pay the stipend amount in addition to WUE tuition and fees.

The following MSCD majors are open to WUE students on a space-available basis: Behavioral Sciences, Civil Engineering Technology, Criminal Justice/Safety Studies, Foreign Languages and Literatures - General, Health Care Management, History - General, Hospitality Restaurant Management, Human Performance Composite; Meteorology; Nursing/Registered Nurse (RN, ASN, BSN, MSN); Political Science

and Government - General; Psychology; Social Work; and Surveying and Mapping. Qualified students must apply and be admitted to MSCD and must submit a WUE New Student Participation Form to the Office of Admissions. This form and more information, including information on WUE tuition, fees, and COF may be obtained at www.mscd.edu/enroll/admissions/paths/wiche or by contacting the Office of Admissions at the Central Classroom Building, 1st floor, 303-556-3058.

Metro Meritus

Individuals 60 or older who do not wish to earn credit are invited to attend tuition-free classes of their choice on a space-available basis. Metro Meritus encourages participants to continue their personal educational growth in a stimulating and friendly campus setting. For more information, contact the Center for Individualized Learning in the St. Francis Center, 2nd floor, 303-556-8342. Application forms are also available at www.mscd.edu/~cil.

Admission of International Students

All students who declare a country of citizenship other than the U.S. on the Application for Admission must contact the Office of Admissions.

Applicants who are U.S. Resident Aliens (including refugees and political asylees) will be required to (1) submit a minimum of an official high school transcript/diploma that is determined equivalent to high school graduation in the U.S., and (2) complete an immigrant advising interview to ensure that their English language skills are sufficient for admission to the College.

Applicants who are on any type of temporary visa are required to submit the International Application for Admission, which can be obtained from the Office of Admissions or online at www.mscd.edu/admissions.htm.

Applicants on temporary visas are required to submit (1) a minimum of an official high school transcript/diploma that is determined equivalent to high school graduation in the U.S., (2) English language proficiency documentation, normally in the form of an acceptable TOEFL (Test of English as a Foreign Language) score, and (3) documents demonstrating sufficient financial support to cover the costs of attending the College for one academic year, including living expenses (this is only required of potential students on F-1 visas). Detailed information regarding all requirements and admission procedures for international students can be obtained from the Office of Admissions and on the International Application for Admission.

TRANSFER CREDIT EVALUATION

A transfer credit evaluation is performed for admitted degree-seeking students after official transcripts are received by the Office of Admissions. Within approximately four weeks, students receive two copies of the transfer credit evaluation, one of which should be taken to the major and minor departments for advice on how credits might apply to degree programs.

Transfer credits are accepted under the following guidelines:

- Credit must have been earned at an institution of higher education holding full regional accreditation.
- MSCD accepts up to 64 semester hours from two-year institutions and up to 90 semester hours from four-year institutions or a combination of two-year and four-year institutions.
- Grades earned must be a "C-" or better. Courses with "D," "F" or similar grades are not transferable. Also, courses graded with C.E.U.s (Continuing Education Units) will not be accepted. A summary of transfer credit from each institution is indicated on the MSCD academic record. Neither transfer course grades nor previous grade point averages are indicated or affect the MSCD grade point average.
- Course content must be similar to that of MSCD courses.
- No preparatory or remedial courses are applicable toward an MSCD degree.
- Students who have earned an A.A. or A.S. degree from a Colorado community college will receive
 junior standing at MSCD, provided all courses included in the degree carry a grade of "C" or better

- and, based on the course-by-course evaluation, otherwise meet minimum MSCD transfer credit standards. Students may need to complete additional MSCD lower-division requirements.
- Applicants having completed the Colorado community college core curriculum, as certified on their community college transcripts, are considered to have satisfied MSCD's minimum General Studies requirements. However, additional specific lower-division courses may be required for certain degree programs.
- Once transfer credits are evaluated, the total number of these credits applicable to a degree will not be reduced unless the student repeats already-awarded transfer credit at MSCD, or interrupts MSCD enrollment for three or more consecutive semesters and readmits to the College under more restrictive transfer credit evaluation policies.
- In accordance with policies established by the Colorado Commission on Higher Education regarding students transferring between Colorado public institutions, MSCD has instituted procedures for resolving transfer credit disputes. Questions regarding these procedures may be directed to Cristina Martinez in the Office of Admissions at 303-556-3984.

Transfer Services

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

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

Transfer counselors are available by appointment and for walk-in counseling. Counselors work closely with transcript evaluators to provide students with information about transfer credits and how those credits may be applied to their degree programs. Questions pertaining to a student's official transfer credit evaluation should be referred to the transfer evaluator responsible for the evaluation. That person's name and telephone number are found on the letter that accompanies the evaluation sent to the student. General questions regarding a transfer evaluation or preliminary evaluation should be referred to the Office of Transfer Services, Central Classroom Building, Room 106, 303-556-3774, or transferquestions@mscd.edu.

ENROLLMENT

New Student Orientation

Orientation is a required pre-enrollment step for ALL degree-seeking students at MSCD. The mission of New Student Orientation (NSO) is to facilitate the transition of entering students by helping them learn about and connect with the campus community. A variety of sessions are offered to accommodate the needs of our diverse commuter population, including specialized sessions for first-time college students, transfer students, and adult students returning to college. In addition, transfer students over the age of 20 can complete their orientation requirement through an online orientation course. During orientation, incoming students have the opportunity to interact with current MSCD students and staff, while they receive valuable information about academic advising, general studies requirements, the registration process, and financial aid. Student Orientation Leaders also share some of their own tips for college survival, including how to utilize campus resources and how to get involved in campus activities. For further information about orientation, visit the NSO website at www.mscd.edu/~nso or call 303-556-6931.

Reading, Writing and Mathematics Placement Examinations

If the ACT or SAT has been taken, some assessment tests may be waived if the following scores are met or exceeded: an ACT subscore at or above 18 in English (SAT verbal of 440), 19 in Math (SAT math of 460) or 17 in Reading (SAT verbal of 430). For additional information on English or Reading, call 303-556-3677. For additional information regarding mathematics placement, visit the MSCD Web site at http://clem. mscd.edu/~math-cs/studentinfo/mglp.pdf or obtain a hard copy of the *Mathematics Group Learning Program* brochure from the Academic Advising Center. Degree-seeking students who are diagnosed as needing remedial course work have at their disposal basic skills courses offered through the Community College of Denver. Students are responsible for completing remedial course work no later than the end of the freshman year (i.e., within the first 30 semester hours matriculated as a college student).

Academic Advising

At MSCD students are provided multiple sources of academic advising support. Continuing students with declared majors receive advising assistance from their academic departments. New students and students without declared majors receive advising support from the Academic Advising center. Services available to students in the center include the following: assistance with course selection, scheduling and registration; help with long-term degree planning; identification of degree enhancement strategies; and ongoing developmental advising, including assistance with the major-minor selection process, adjustment to college, etc. For additional information call 303-556-3680.

REGISTRATION

All continuing students in good standing and all accepted applicants at the College are eligible to register each semester.

Students are responsible for ensuring that there is a correct and up-to-date address and phone number on file with the College. Address changes may be made with the Registrar's Office through MetroConnect (http://metroconnect.mscd.edu), or by writing or faxing (303-556-3999) the address and phone number change to the Registrar's Office.

Information on the registration procedure, registration dates, and student responsibilities and obligations related to registration is available on MetroConnect (http://metroconnect.mscd.edu).

Students Not Officially Registered in a Class

For Students

Students must be officially registered with the College for classes as established, published deadlines prescribe. Officially registered means that students have been accepted for admission by the college, are eligible to register for classes, and that the Course Reference Number (CRN) for the class is entered on the student's registration record maintained by the Office of the Registrar. The deadline to register for a full-semester class is the census date for that semester. For fall and spring semesters the census date is the 12th business day of the semester; for summer semester the census date is the 8th business day of the semester. These deadlines are available on the web for each semester at http://www.mscd.edu/academic/acal.htm There are pro-rated deadlines for part-of-term classes. It is students' responsibility not to attend a class if they are not officially registered.

For Faculty

According to CCHE policy, as noted in CCHE document "FULL-TIME EQUIVALENT (FTE) REPORT-ING GUIDELINES and PROCEDURES, June 2002", individuals may not attend a class if they are not officially registered for the class. The deadline to register for a full-semester class is the census date for that semester. For fall and spring semesters the census date is the 12th business day of the semester; for summer semester the census date is the 8th business day of the semester. These deadlines are available on the web for each semester at http://www.mscd.edu/academic/acal.htm. There are pro-rated dead-

lines for part-of-term classes. Faculty must refer students who are not registered by the census date to the Office of the Registrar to discuss their registration options. Faculty should allow the student to return to the class only upon showing proof of registration from the Office of the Registrar. Faculty must ensure that all students in their classes are listed on their E-Rosters. Faculty can check their E-Rosters anytime before and during the semester to determine whether a student is registered for the class.

Concurrent Enrollment

Students who find it necessary to register at MSCD and another college at the same time should check with MSCD Transfer Services concerning the acceptance and application of transfer credits.

Pooled Registration

MSCD and the University of Colorado at Denver and Health Sciences Center have formed a common pool of courses available to students at each institution. For the pool, MSCD offers courses through the School of Letters, Arts and Sciences, through the Economics Department in the School of Business and through the Technical Communication and Human Performance and Leisure Studies departments in the School of Professional Studies. UCDHSC offers courses through the College of Liberal Arts and Sciences.

Students must register for pooled courses through their home institution. Students at MSCD:

- must comply with all MSCD policies, procedures and deadlines when registering for, withdrawing from or dropping UCDHSC pooled courses;
- may not be placed on a wait list for any UCDHSC pooled course.

For students at MSCD, UCDHSC pooled course titles and grades will appear on the Metro State transcript and will count in the GPA and hours toward graduation; however, UCDHSC pooled courses will not satisfy academic residence requirements for degrees from MSCD. This restriction applies to the residence requirements of the overall degree (30 semester hours minimum), the major (8 upper-division semester hours minimum), and the minor (3 upper-division semester hours minimum). This restriction does not apply to Physics (PHY) courses.

MSCD/UCDHSC Nonpooled Courses

Students wishing to register for UCDHSC courses not listed in the common pool must follow concurrent registration procedures:

- Complete a UCDHSC admission application.
- Register and pay for UCDHSC courses at UCDHSC.
- Request that official transcripts from UCDHSC be sent to MSCD at the end of the semester.

Students are advised:

- to consult with their academic advisor at MSCD to determine transferability of courses.
- to consult with MSCD's Financial Aid Office if receiving aid.

Interinstitutional Registration

Students enrolled at Metropolitan State College of Denver may register for courses at the Community College of Denver. Courses taken at these institutions in no way alter existing MSCD degree requirements, but may apply toward degree requirements subject to specific approval by MSCD. Students should be aware that courses taken interinstitutionally will be counted as part of the 64 semester hours from community colleges applicable to an MSCD degree. Interinstitutional credits will not satisfy academic residence requirements at MSCD. In the event a conflict arises between the policies/procedures of MSCD and one of the colleges listed above, the most restrictive policy prevails. Students are advised to confer with department chairs and/or coordinators of academic advising before registering interinstitutionally. The enrollment status of a student in the interinstitutional registration program is determined by the student's status at the home institution (institution where the student is seeking a degree). Stu-

dents should ascertain before enrolling at an institution that desired courses will satisfy degree requirements at the home institution.

Course Audit Policy

Students may audit a class with the permission of the instructor and if seating is available. Academic credit is not awarded for an audited course and no academic record is maintained. The cost for auditing a course is based on regular tuition. The Tuition and Fees Table is available on MSCD's Web site (http://www.mscd.edu/enroll/admissions/tuition.htm). Audit approval forms are available in deans' and academic department offices.

Changes in Registration

Enrolled students may adjust schedules by dropping and/or adding classes. Complete information concerning dropping and/or adding classes and the tuition and fee refund schedule can be found on Metro-Connect (http://metroconnect.mscd.edu).

Students who reduce their course load after the 12th day of classes and before the beginning of the fifth week will receive an "NC" notation for each course they have dropped. A NC/Withdrawal Form must be submitted by the deadline to the Registrar's Office.

Students reducing their course load between the beginning of the fifth and the end of the tenth week of classes during fall and spring semesters may receive an "NC" notation for each course, provided faculty approval is granted. Additional restrictions regarding assigning the "NC" notation may be set by each school, department and/or faculty member for the period between the beginning of the fifth and the end of the tenth week of the semester (or proportional time frame). Students are advised to seek faculty signatures well before the deadline. An NC/Withdrawal Form must be submitted by the deadline to the Registrar's Office. See the sections on grades, notations, course load and class attendance in this *Catalog*.

Proportional time frames are applied for part-of-term courses, workshops and summer terms. Procedures for adding or dropping a part-of-term course after the course has begun are described on Metro-Connect (http://metroconnect.mscd.edu).

Registration Status

The College generally defines full-time status as being registered for 12 semester hours in fall and/or spring semesters, eight semester hours in the summer. However, to complete a degree in four years or eight semesters, students need to take at least 15 hours a semester. Similarly, half-time is generally defined as six semester hours, fall and spring and four semester hours for summer. Less than half-time is the other term used, which is generally defined as less than six semester hours in the fall and spring and less than four semester hours in the summer. However, for financial aid purposes 12 semester hours is also the full-time standard in the summer. (See page 29 of this *Catalog*). To be eligible for health insurance coverage automatically, the numbers are 10 semester hours in the fall and spring and eight semester hours in the summer. (See page 29 of this *Catalog*). You can order an enrollment verification on MetroConnect (http://metroconnect.mscd.edu).

TUITION AND FEES

Tuition Classification

A student is classified as an in-state or out-of-state student for tuition purposes at the time of admission. This classification is based upon information supplied by the student on the application for admission and is made in accordance with the Colorado Tuition Classification Law, CRS S23-7-101 et seq. (1973), as amended. Once determined, a student's tuition classification status remains unchanged unless satisfactory evidence that a change should be made is presented. A Petition for In State Tuition Classifica-

tion Form and the evidence requested must be submitted to the Registrar's Office if a student believes she or he is entitled to in-state status.

The tuition classification statute requires that in order to qualify for in-state status, a student (or the parents or legal guardian of the student in the case of students under 23 years of age who are not emancipated) must have been domiciled in Colorado for one year or more immediately preceding the first day of the semester for which such classification is sought.

Domicile for tuition purposes requires two inseparable elements: (1) a permanent place of habitation in Colorado and (2) intent to remain in Colorado with no intent to be domiciled elsewhere. Some examples of connections with the state that provide objective evidence of intent are: (1) payment of Colorado state income tax as a Colorado resident, (2) permanent employment in Colorado, (3) ownership of residential real property in Colorado, (4) compliance with laws imposing a mandatory duty on any domiciliary of the state, such as the drivers' license law and the vehicle registration law and (5) registration to vote. Other factors unique to the individual can also be used to demonstrate the requisite intent.

Any questions regarding the tuition classification law should be directed to an admissions officer at the College. In order to qualify for in-state status for a particular semester, the student must prove that domicile began not later than one year prior to the first day of classes for that semester. The dates for qualifying and for submitting petitions are available under Academic Calendar on MSCD's Web site (http://www.mscd.edu/academic/acal.htm).

College Opportunity Fund (COF)

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

These funds, called "stipends," will be applied to a student's college account each semester and are available for up to 145 credit hours of college-level undergraduate study. The actual value of the stipend will be determined by the Colorado Legislature each year.

Students must apply online for the stipend at www.CollegeInColorado.org once. Then, each semester they must authorize the use of the stipend during registration.

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

What happens if a student does not sign up? That student will not be eligible for the stipend and will be **responsible for paying the total in-state tuition** – both the student's share and the state's share.

Eligibility: In-state, undergraduate students will be eligible for the stipend regardless of age, income or financial aid status. Students who are seeking a second bachelor's degree or post bachelor degree credit are eligible to use the stipend for up to 30 credit hours.

For more information, visit the College's Q&A section on COF at: http://www.mscd.edu/news/cof/cof_faq.htm.

Tuition and College Service Fees

The Board of Trustees, the governing board of the College, reserves the right to alter any or all tuition and fees for any semester without notice.

Tuition and college service fees are determined by the trustees shortly before the beginning of each academic year. Information regarding tuition and fees can be found by going to the Tuition and Fees Table on MSCD's Web site (http://www.mscd.edu/enroll/admissions/tuition.htm).

Standard Fees

An application fee is required of any applicant for admission to the College. This fee is nonrefundable and will not be applied to tuition.

Application fee	\$25
International student application fee	\$40
Matriculation fee	\$50
Special fees	
Returned check charge	\$17

Student Health Insurance

All students taking 10 credit hours or more in the fall or spring semester or eight credit hours or more in the summer semester are required to participate in the College-sponsored student health insurance coverage unless proof of outside health insurance is provided that meets the standards set by the college.*

Students are automatically billed for student health insurance on their tuition bill under the health insurance fee heading. Students who have outside insurance coverage are responsible for completing a waiver form and providing proof of outside health insurance coverage (a copy of the front and back of your insurance card or documentation from your insurance company showing amount of deductible, co-insurance, and annual maximum benefit) by the deadline indicated on the appropriate semester waiver form. Waiver forms will not be accepted after the published deadline. Waiver forms and insurance brochures are available at the Student Health Insurance Office located in the Health Center at Auraria (PL 150). Waiver forms are also available from the Health Center's web site at http://www.mscd.edu/student/resources/insurance.

Health insurance waiver forms are valid for only one year. Continuing students must complete a waiver form ANNUALLY prior to each fall semester. Students with a break in academic enrollment, and those who begin classes in the spring or summer, must complete a waiver form by the appropriate deadline for the semester in which they enroll and every fall semester thereafter.

Dependents of a student participating in the Student Health Insurance Program are also eligible for optional insurance coverage. Adult dependents (18 and up) may use the Health Center at Auraria after they pay the center's per-semester usage fee. Dependents 17 years old or younger are not eligible for services at the Health Center. Please call the insurance office for information regarding pediatric care. In addition, ongoing students enrolled during the spring semester are given the option of purchasing summer health insurance without attending classes, provided that payment is received by the deadline listed on MSCD's Web site (URL given above). Students with questions regarding Student Health Insurance should contact the Student Insurance Office at 303-556-3873.

*Effective August 1, 1998, the Colorado Indigent Care Program (CICP) will NOT be accepted as proof of comparable outside health insurance coverage for waiver purposes. This special program is not considered health insurance and was not designed by the state legislature for this purpose. Comparable coverage information may be found at our Web site or call 303-556-3873.

Student Dental Insurance

Voluntary Program for all Students

Voluntary Dental Insurance is available to students taking one credit hour or more. Information and application forms can be obtained at the Student Insurance Office in the Health Center at Auraria (PL 150).

FINANCIAL AID

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

Estimated Expenses

The 2007-2008 academic year expenses are as follows for a student not living with parents:

	Resident	Nonresident
Tuition and Fees	\$4,175	\$11,590
Room and Board	7,641.	
Books and Supplies	1,698.	
Transportation	675.	675
Miscellaneous		
Total	\$15,350.	\$22,675

Tuition and fees are set by MSCD and the Colorado Commission on Higher Education and are subject to change without notice. All students are placed on a single-person budget. Additional allowances may be made for students with day-care costs for dependent children. These figures are based on full-time enrollment of 12 credit hours.

Eligibility and Need

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

Application Procedures

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

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

Detailed information concerning application procedures is provided on our Web site at: www.mscd. edu/enroll/finaid.

Financial Aid Programs

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

Grants

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

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

The amount of Federal Pell Grant awards for the 2007-08 academic year will range from \$400 to \$4,050 for those students who qualify. Full-time, half-time, or less than half-time students may qualify for a Federal Pell Grant.

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

Colorado State Grants (CSG) are state funds awarded to Colorado residents with demonstrated financial need. Eligible students have no prior bachelor's degree, are U.S. citizens or eligible non-citizens, and are enrolled full- or part-time (at least six credit hours for the fall and spring semesters) at MSCD. The amounts of the CSG award ranges from \$100 to \$800 per fall and spring semesters.

Colorado Leveraging Educational Assistance program (CLEAP) are a combination of federal and state funds awarded by the same criteria as CSG. The amount of the CLEAP award is \$200 per semester.

Scholarships

Metropolitan State College of Denver offers numerous scholarship opportunties for both incoming and continuing students. By submitting the Metropolitan State College of Denver Scholarship Application by March 1st "Priority Consideration Deadline" each year, you will automatically be considered for all Metro State scholarships for which you are eligible for the next academic year. The Metro State Scholarship Application is available for online submission at: www.mscd.edu/enroll/finaid/scholarship/. A printable version of the application is also available for download at this location.

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

Athletic Scholarships: Metro State has a limited number of athletic scholarships. For additional information, contact the Metro State Intercollegiate Athletics Office (303-556-8300).

Private Scholarships: Students should refer to the Metro State scholarship Web site (www.mscd.edu/enroll/finaid/scholarship) for information regarding scholarships and to access free online scholarship searches.

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

Loans

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

time borrowers at MSCD are required to perform a Perkins Loan Entrance Interview over the Web before loan funds can be released to them.

Federal Family Education Loans (FFEL) include Federal Stafford Loans, unsubsidized Federal Stafford Loans, and Federal PLUS Loans, which help students and/or their parents to borrow funds to help meet educational expenses. To borrow these funds, students and/or their parents must complete and submit, in addition to the FAFSA, a separate lender application to the MSCD Office of Financial Aid. Students must be enrolled at least six credit hours each semester and be degree-, certificate- or licensure-seeking and be making Satisfactory progress with a complete file. Interest rates vary depending on the type of loan and the date the student borrows the first Federal Family Education Loan. For further information on interest rates, check the MSCD Financial Aid website as they vary each year. First time borrowers at MSCD are required to perform a Loan Entrance Interview over the Web before loans funds can be released to them. For additional loan information please visit our website. You will find details of how to apply annual limits and lenders.

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

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

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

Please refer to the MSCD Financial Aid Web site (www.mscd.edu/enroll/finaid/index.htm) for more detailed information regarding loans.

College Work-Study

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

The Financial Aid Package

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

Award Notification

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

Disbursement Procedures:

 Awards are based on full-time enrollment. If a student is enrolled for less than 12 credit hours each semester, the award may be reduced/prorated. The final award adjustment occurs on census date (about the 12th day of school each fall and spring semester and the 8th day of the summer semester).

- Grants, Scholarships and Student Loans: All financial aid awards (with the exception of out-of-state loan checks, consortium checks and some scholarship funds) are disbursed into the student's account. The Business Office deducts any outstanding balance owed, including current tuition and fees, and issues a check for the remaining funds. This check is either mailed to the student or the student can pick it up at the Cashier's Office. This check can be used to purchase books and pay other educationally related expenses.
- Parent Loans: Federal PLUS funds are electronically submitted or mailed from lenders to MSCD's
 Office of Financial Aid. Eligibility is verified and then the check is mailed to the parent borrower
 unless the parent authorizes the student to receive the refund.
- Work Study: Work-study earnings are paid bi-weekly and are treated as wages earned. Outstanding balances owed to MSCD are not deducted from these earnings; however, students are strongly advised to pay any outstanding balance as soon as a work-study check is received.

Please refer to the MSCD Web site (www.mscd.edu) for information regarding proration of aid disbursements.

Repayment Policy

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

Financial Aid as a Form of Payment

Please refer to MSCD's Web site (http://www.mscd.edu) for information regarding payment of tuitionand fees with awarded aid.

SERVICES AND PROGRAMS FOR STUDENTS

Academic Advising

At MSCD students are provided multiple sources of academic advising support. Continuing students with declared majors receive advising assistance from their academic departments. New students and students without declared majors receive advising support from the Academic Advising Center, CN 104. Services available to students in the center include the following: assistance with course selection, scheduling and registration; help with long-term degree planning; identification of degree enhancement strategies; and ongoing developmental advising, including assistance with the major-minor selection process, adjustment to college, etc. For additional information call 303-556-3680.

Alumni Relations

The Office of Alumni Relations and Alumni Association, located at 1059 Ninth Street Park primary mission is "To cultivate relationships, motivate participation and create opportunities for a continuous connection with the College, its alumni and the community." The Alumni Office connects alumni to students and the college community through events, volunteer opportunities, mentoring programs, alumni chapters and annual giving opportunities with the purpose of maintaining and renewing personal relationships established during student days. Several alumni programs and services are offered including: discounted insurance programs and career development resources, loan consolidation, credit union membership and free online transcripts. In addition, the Alumni Office sells the Metro State collegiate license plates that benefit student scholarships and alumni programs. The alumni association also provides students scholarships annually.

For a detailed list of programs, services and upcoming alumni events, visit www.mscd.edu/alumni.htm or contact the office directly at 303-556-8320.

Auraria Campus Police Department

The Auraria Campus Police Department is fully certified and authorized to provide police services to the Auraria campus and is proud to maintain its reputation as one of the safest campuses in the state.

In addition to a police chief and 22 full time police officers, the Auraria Campus Police Department employs security guards and communication personnel. Officers patrol the campus 24 hours per day, seven days per week, on foot, bicycles or golf carts, and in patrol cars.

The Auraria Campus Police Department also provides additional services to the campus community such as vehicle unlocks, crime prevention programs and emergency responses and fingerprinting.

The Auraria Campus Police Department is located at 1201 Fifth Street. Routine calls-303-556-5000; EMERGENCY CALLS-911 (or use one of the many emergency phones located around campus).

Auraria Early Learning Center

The center provides high quality early childhood care and education to the children of students, staff and faculty. A discovery, child-oriented approach is provided by a professional teaching staff to children ages 12 months to 6 years. Preregistration is required. Please call 303-556-3188 for information.

Auraria Parking and Transportation Services Parking Services Department

Daily Fee Parking: (in-and-out privileges in Lot E only): daily fees range from \$1.50 to \$10.00. Several lots are unattended and require purchasing a receipt from the vending machine. Make sure the parking receipt is placed face-up on the driver's side of the dashboard. Receipts are valid only on the day and in the lot where purchased and are not transferable from one vehicle to another. With an Auraria I.D., parking is available in the Tivoli lot for a maximum fee of \$5.00.

Permit Parking: Parking permits are available on a semester basis. They go on sale on the first day of registration, the Monday prior to the start of the semester. Contact the Parking Office at 303-556-2000 for more information.

Motorist Assistance Program: Personnel will help jump-start dead batteries and assist in changing tires. Jumper cables, bumper jacks, tire tools and gasoline cans are also available at no cost to campus parkers. Call 303-556-2000 for assistance. The Parking Services Department is located at 777 Lawrence Way (first floor of the parking centre). Hours are from 7:30 a.m. to 5:30 p.m. Monday-Friday.

Handivan Services: The wheelchair-accessible handivan provides free on-campus transportation for students, faculty and staff from 7:00 a.m. to 10:00 p.m., Monday–Thursday and from 7:00 a.m. to 6:00 p.m. on Friday. Call 303-556-2001 for information.

Nightrider: The Nightrider is a free security escort service for any campus parking lot. Service is available from dusk to 10:00 p.m., Monday-Thursday during fall and spring semesters. Call 303-556-2001 for information.

Career Services

Tivoli (TIV) Room 215, 303-556-3664, www.mscd.edu/~career

Career Services offers assistance to students and alumni in the following areas:

 Career counseling and career assessments — Individuals are assisted in clarifying their career interests and personality strengths as they relate to college majors and the world of work. Videotaped mock interviews are available as well.

- Career events Fairs and seminars are held throughout the fall and spring semesters.
 These events provide an opportunity to network with prospective employers and identify career opportunities. Information is available through the Career Services Web site, www.mscd.edu/~career. Click on the Events link.
- Job Postings A customized online employment service for students and alumni. Post resumes
 and other job search documents and search through current full-time, part-time and internship
 postings for entry-level positions listed by employers specifically targeting Metro State.
- Career workshops These workshops provide information about resume writing, job search strategies, interviewing skills, image management and graduate school.
- Career library The library includes print and electronic resources, job vacancies, salary surveys, graduate school information, and various career research resources. Consult with Career Services staff and learn to utilize an extensive set of electronic resources for career planning, searchable job databases, and other job search tools.
- eChoices Discover programs These online programs are comprehensive and posess easy-to-use databases that provide information on occupations, colleges, financial aid resources, individualized career planning, and career assessments.
- www.mscd.edu/~career Our Web site has a wealth of information about jobs and careers.

Center for Visual Art

Located off campus in the heart of LoDo, the Center for Visual Art (CVA) was created in 1990 by Metro to serve the College and the Rocky Mountain region. Open all year, CVA organizes and hosts diverse exhibitions including artists of national and international significance, which otherwise would be unavailable to the College community and state populace. CVA is a cornerstone of the N.A.S.A.D. accredited art department. Past exhibitions have included works by Sandy Skoglund, Picasso, Alfred Stieglitz, Romare Bearden. CVA hosts MSCD's BFA Thesis exhibitions featuring the works of the College's graduating art students and a biannual exhi-bition of the Metro art faculty.

Education and community outreach are important facets of CVA. Students, including the Art Department's 1000 majors/minors and 12,000+ members of the general public visit CVA each year. Visitors take advantage of the many lectures, tours and workshops available in conjunction with the exhibitions. Outreach programs, providing art workshops and activities for Denver's at-risk youth are another element of CVA's education program and commitment to the community. Work-study positions, internships and volunteer opportunities are only a few ways that Metro students can become involved at CVA. Metropolitan State College of Denver's Center for Visual Art is located at 1734 Wazee Street, Denver, CO 80202; Telephone: 303-294-5207, Fax: 303-294-5210; www.mscd.edu/news/cva.

Counseling Center

The Counseling Center staff provides services to currently enrolled Metropolitan State College students at no additional charge beyond student fees. The staff is ethnically and culturally diverse. Services include personal therapy, support groups, stress management, and crisis intervention. The center also coordinates an active Peer Education Program. Students may request an appointment for their first visit in advance. Follow-up appointments are made to accommodate class schedules. The staff also provides consultations to faculty, staff, and student groups upon request. Faculty are encouraged to invite Counseling Center staff to address mental health issues in their classes. The center is open from 8:00 a.m. to 5:00 p.m. Monday–Friday. For additional information call 303-556-3132. We are located in Tivoli 651.

Access Center for Disability Accommodations and Adaptive Technology

Providing equal opportunity is an important and shared responsibility at MSCD. The Access Center shares this responsibility by assisting students with documented disabilities in reaching their academic potential. Our office strives to accomplish this by providing qualified students with disabilities reasonable academic accommodations as mandated under ADA and Section 504 of the Rehabilitation Act.

Disability categories served by our office include: ADD/ADHD, systematic illness, deaf/HOH, learning, cognitive, psychological, vision, and physical.

Students requesting accommodations need to contact the Access Center and arrange an intake interview. Students will need to provide appropriate documentation that describes their diagnosed disability and current functional limitations. Based on the provided documentation, it will be determined which accommodations and/or services the student is eligible to receive. Examples of accommodations and services include: extended exam time, peer note takers, interpreters, alternative text, priority registration and disability counseling and advocacy.

The Access Center provides eligible students with access to some of the latest adaptive technology. Approved students will receive training and access to a variety of hardware and software products in our computer lab area. Software available for use includes JAWS, Dragon Naturally Speaking, Zoom-Text and TextHelp Read & Write.

The Access Center is located in the Auraria Library, Suite 116. For further information, call 303-556-8387 or access the Web site at www.mscd.edu/~access.

Extended Campus

Fully accredited courses are offered at two convenient locations in the Denver metro area: Metro South, 5660 Greenwood Plaza Boulevard, Greenwood Village, 303-721-1313 and Metro North, 11990 Grant Street, Northglenn, 303-450-5111. Extended Campus offers evening, weekend and accelerated classes. In addition, it offers a variety of formats including telecourses, correspondance courses, and other distance learning options. Extended Campus schedules are available each semester.

Gay, Lesbian, Bisexual, Transgender Student Services at Auraria

Gay, Lesbian, Bisexual, Transgender (GLBT) Student Services is open to all Auraria students as a resource for exploring issues of sexual orientation and gender identity. This program offers a variety of support, education and advocacy services for the entire campus community:

- support for those who may have questions about sexual orientation and gender identity
- advocacy for students experiencing discrimination or harassment based on a real or perceived gay, lesbian, bisexual or transgender identity
- speakers bureau for classes and events on various aspects of sexual orientation, gender identity and related issues
- training programs and workshops about combating homophobia, transphobia, working with GLBT individuals, and sensitivity considerations
- library of books, videos and resource files available for research and leisure
- sponsored events; educational, academic, and social; such as National Coming Out Day Celebration, GLBT Awareness Month keynote speaker, World AIDS Day, Transgender Day of Remembrance and many other forums providing information and dialogue about GLBT issues

The GLBT Student Services office is located in the Tivoli Student Union, Room 213, and is staffed by a director with the support of student employees and volunteers. Input and involvement from the entire campus community are welcomed. For additional information call 303-556-6333, visit www.glbtss.org or email info@glbtss.org.

Health Center at Auraria

All MSCD students have access to medical services at the Health Center. Student health insurance is **NOT** required in order to use the Health Center. Physicians, physician assistants, nurse practitioners and medical assistants staff the facility. Students will be asked to complete a sign-in sheet and show a current semester ID card each time they check in.

Services include treatment of illness and injuries, lab testing, medications, physicals, health maintenance exams, sexually transmitted disease information/testing, birth control information/services, minor surgery, cholesterol screening, immunizations, HIV testing, blood pressure checks, casting, suturing and X-ray. Payment is required at the time of service except for students who participate in the Student Health Insurance Program. Plan exceptions or co-pays may apply.

Walk-in services begin at 7:50 a.m., Monday–Friday. Walk in access varies daily, contingent upon when all patient slots have been filled; thus, the daily closure time for walk-in care is variable. Patients are encouraged to call for an appointment or walk in as early as possible. The Health Center at Auraria is located in the Plaza Building, Room 150, on the lower level. Brochures with additional information are available at the Health Center or go to our Web site at http://www.mscd.edu/student/resources/health/. For further details call 303-556-2525.

High School Upward Bound

This program is designed to generate the skills and motivation necessary for success in and beyond high school for youths who are low-income and first-generation college-bound students. The program provides intensive academic instruction during the school year, as well as a six-week summer session. A full range of academic skill preparation in reading, writing, and mathematics is part of a comprehensive counseling and enrichment program. Upon completion of their high school studies, program participants are enrolled in the Upward Bound Bridge Program, prior to pursuing their full-time postsecondary studies at an institution of their choice and ability. This program develops creative thinking, effective expression and positive attitudes toward learning. The students are recruited at the beginning of their sophomore year in high school from five target-area high schools located in Denver County (East, Lincoln, Manual, North, and West High School). For additional information call 303-556-2812.

Immigrant Services Program

The Immigrant Services Program provides assistance to students whose first language is not English. The program offers intensive academic and personal advising, assessment, tutoring, assistance with the financial aid application process, and monitors student progress. Because the program does not offer ESL classes, students with limited English proficiency are referred to the appropriate curricula. For more information call 303-556-3676.

Information Technology

Information Technology at Metropolitan State College of Denver provides students with the opportunity to use the most current technology either on campus or from home. Metropolitan State College of Denver offers more than 30 computer laboratories for use by all current students. The software in laboratories ranges from word processing and computer graphics to the most current engineering software. Information on the location and operating hours of student labs is available in the current class schedule or at www.mscd.edu/~complabs. MSCD students needing adaptive equipment or additional assistance with technology due to a disability can visit the Access Center, Library Room 116. The computer lab currently has software to assist students with hearing, learning, visual and orthopedic disabilities. Further information is available at www.msce.edu/~access; 303-556-8387 (Access Center).

The MSCD homepage (http://www.mscd.edu) provides many online services for students including:

- online registration
- · online admissions
- · orientation and assessment
- financial aid
- records
- · course catalog
- · class schedules

Responsible Use Policy

Before any student receives an e-mail account, they are required to read and agree to the Responsible Use of Technology Resources Policy. This policy is in place to protect all students, faculty, and staff, as well as the stability of the computing environment. It is important to be familiar with the terms of the Responsible Use Policy as misuse of computing resources may include suspension of computing privileges, referral to an appropriate authority on campus and referral to a law enforcement agency. Disciplinary action by the College may include suspension, expulsion and requirements to make financial restitution. The policy is listed in the student handbook and online at www.mscd.edu/infotech/policies/itpolicy2.htm.

Information Technology at MSCD is committed to providing students with the best possible computing service on campus and from home. Assistance is available in the student labs or through the MSCD Center for Technology Services at 303-556-8325.

International Student Services

MSCD provides a variety of services to international students attending MSCD. These include counseling on visas, school transfers, work permission and housing; conducting academic and cultural orientation sessions; assisting with immigration issues; providing information to embassies and sponsors; advising on academic issues; and organizing social and cultural events. International students should contact the Academic Advising Center.

Please see International and Intercultural Education on page 55 of this *Catalog*.

Metro Bridge Program

The Metro Bridge Program's mission is to facilitate the successful transition of high school graduates as they enter Metro State and to increase the academic preparedness, retention, and graduation of participants in the intensive summer program. Program participants develop through academic and social learning communities that unite students from diverse cultural and social backgrounds in an environment that promotes academic excellence and collegiality. Students receive a scholarship for the summer program, earn college credit, and participate in enrichment workshops and activities that enhance their summer experience, transition, and connection to Metroplitan State College of Denver. The office is located in Central Classroom Building, Room 102. For information call 303-556-4023.

Metro North and Metro South

Please see Extended Campus on page 6 of this Catalog.

Short-Term Emergency Student Loan Program

The Short-Term Emergency Student Loan Program offers short-term (30-day) interest-free loans to eligible Metro State College students of up to \$210.00 per loan; with a maximum of two loans per term. Applications are available at the Scholarship Center in the Central Classroom, room 120, Monday-Friday from 8 a.m. to 5 p.m. Qualifying criteria, procedures for submission and online applications are available through our website (www.mscd.edu/enroll/finaid/resources/shorttermloans); or contact the Short-Term Loan office in the Scholarship Center at 303-352-4247.

Student Travel Program

The Student Travel Program is pleased to offer funding opportunities up to \$2,000 to qualified student groups and up to \$650 for qualified individual students to help facilitate their attendance at educational conferences nationwide. (Individual students may only be considered when they have been invited to give poster presentations, conference workshops or papers, or they have some other significant role in the conference.) Expenses for transportation, conference registration, and lodging may be considered for funding from Student Travel. Students must formally apply for this funding at least two months prior to the event, along with their faculty or administrative advisor who has agreed to attend the conference with them. Detailed information about student eligibility, procedures for applying, the proposal due dates, other qualifying criteria and the online application are available on our web site at www. mscd.edu/~travel. More information is also available in Tivoli 305, or call 303-556-5026 or 303-556-2595.

Student Intervention Services

Student Intervention Services (SIS) administers and enforces the Academic Standing Policy by working closely with Academic Affairs. SIS works with many academically struggling students whose cumulative GPA is below 2.0, and with Re-admit students whose cumulative GPA is below 2.0. Students are assisted with developing an individualized success strategy which may include assistance with advising, scheduling, and referrals to appropriate services. SIS also reviews and makes decisions on Suspension Appeals for Academically Suspended students wanting to remain enrolled at the College. Students identified as needing our services are notified by e-mail and an academic hold is placed on their registration until they meet with a SIS staff member. SIS also administers the Academic Alert Program which provides staff and faculty with mid-term grades to assist students as early as possible in the semester.

Student Success Program

The Student Success Program's (SSP) goal is to assist provisionally admitted students with comprehensive and individualized services to successfully transition them into Metro State. The structured services and programming that SSP offers are peer advising, academic monitoring, and referral to other campus services. These efforts are to positively affect retention and graduation rates, and for the students to help themselves through college. Students admitted under this provision will be contacted after they have attended orientation and taken the assessment tests and registered for class. The office is located in the Central Classroom Building 102, 303-556-4023.

Federal TRIO Student Support Services Program

The Federal TRIO Student Support Services program is designed to improve the retention and graduation rates of first generation, low–income students and students with disabilities at MSCD. Students enrolled in the program receive tutoring, personal counseling, academic advising, assistance in obtaining financial aid, and opportunities to participate in cultural activities. The program also provides educational and graduate school workshops, computer assisted instruction and basic skills instruction in reading, writing, and mathematics. The Office of Student Support Services is located in Central Classroom 101. For more information call 303-556-4722.

The Spring International Language Center at Auraria

Intensive English classes at the Spring International Language Center focus on all language skills: grammar, reading, writing and listening/speaking, in addition to special electives that students can choose each term, such as TOEFL preparation, vocabulary building and pronunciation. Five nine-week terms are offered throughout the year to enable students to complete their English study quickly. Students are placed at one of the six levels, with assessment of learner outcomes at the completion of each level. Spring International Language Center is located on the fourth floor of the Tivoli Student Union, Room 454. For more information call 303-534-1616.

Tivoli Student Union

The Tivoli Student Union, managed by Student Auxiliary Services, is the heart of campus service and social activities. The Student Union houses Student Government, Activities and Life offices as well as the newspaper offices for the Community College of Denver, Metro State and the University of Colorado at Denver and Health Sciences Center. Other MSCD offices located here include the Tutoring Center, e.den Student Computer Lab, the Counseling Center, New Student Orientation, Testing and Assessment, and the UCDHSC Career Counseling Center. You will also find the tri-institutional office of the GLBT at the Student Union.

Additional student services at the Tivoli Student Union include the Auraria Campus Bookstore, Campus Computers, the Club Hub, Click's! Copy Center, Conference Services, and the ID Program and Commuter Resource Center. Conference Services, located in room 325, will help you make arrangements for meeting space in the Tivoli, St. Francis, St. Cajetan's and the P.E. Event Center, as well as outdoor table rentals.

If you want a break or a quiet place to study, the Tivoli Student Union is just the place. With a wide variety of food venues you will find a place to suit your appetite, schedule and budget. If you would rather retreat, you can watch TV in the Roger Braun Student Lounge, play a game of pool at Sigi's Pool Hall and Arcade, meet a study group in the multicultural lounge or study in total silence in the Garage Quiet Study Lounge.

For more information about the Tivoli Student Union, call 303-556-6330.

Tutoring Program

The Tutoring Program provides free tutoring assistance to all students enrolled at Metropolitan State College of Denver in an effort to promote academic success. The Tutoring Center promotes an environment that is welcoming to the diverse student body of Metro by providing professionally trained tutors who are competent in subject material and areas such as diversity, learning styles, and communication. You can either schedule a session with a tutor or you can simply drop in during our group tutoring times. The office is located in the Tivoli, room 124 and online at www.mscd.edu/~tutoring.

Veterans Services

The Veterans Services Office assists students in procuring their GI Bill education entitlement. The Veterans Services Office acts as the liaison between the U.S. Department of Veteran Affairs and the veteran/ dependent student. Different VA classifications provide different types of entitlement. Student veterans/ dependents may be eligible for tutorial assistance, VA work-study, advance payment, emergency student loans, etc. The office also certifies and tracks the academic progress of entitled veterans. If there are any questions or problems regarding eligibility, payment, tutoring, etc., please speak with a representative in CN 203 or call 303-556-2993.

Federal TRIO Veterans Upward Bound

The primary mission of the Veterans Upward Bound Program is to provide eligible military veterans with academic skills refresher training through a core curriculum of subjects that prepares them to learn as well as succeed at the postsecondary educational level. VUB participants are also informed of various support services that are available to all students on nearly every college campus. Upon successful completion of the VUB Program, veteran participants are not only familiar with the services and resources that would be available to them as college students, more importantly they possess a renewed confidence in their academic abilities – a vital asset that is necessary for success in college.

Women's Services

The Institute for Women's Studies and Services is committed to the empowerment of women through education. To help students have a positive college experience, women's services provides referrals to campus and community resources, information about scholarships, assistance with the process of entering Metro State College, advocacy services for students dealing with harassment or discrimination, and programs and events that focus on issues of particular concern to women. The institute houses a small library with a variety of books and other resource materials on women's experiences, histories and contributions to society. Call 303-556-8441 or stop by 1033 9th St. Park for more information.

Writing Center

The Writing Center staff of composition instructors and trained writing tutors is committed to working with students in developing their writing abilities. Tutors help students identify problem areas and provide instruction on how to eliminate them. Through one-on-one instruction, tutors teach students to generate, organize, and develop ideas; to revise and edit with confidence; and to handle issues of format and documentation. For more information contact the Writing Center at 303-556-6070.

STUDENT LIFE

The Office of Student Life offers students a wide range of services and programs designed to enhance classroom experiences and encourage campus involvement. These co-curricular programs include educational, cultural, recreational and social interaction as well as unique opportunities for leadership development. To learn more about these services, visit our offices located in the Tivoli Student Union, Room 311 or call 303-556-3559. The website is http://www.mscd.edu/~studlife.

In addition, the Office of Student Life also administers the following programs:

Student Affairs Board (SAB) - The Student Affairs Board enables students to have continuous representation in the use and allocation of their student affairs fees. The SAB is comprised of student government representatives, faculty senate representatives and administrative representatives.

Student Problem Action Network (SPAN) - The SPAN Program is a network of volunteer advisors who help students resolve problems they may be experiencing with faculty, staff or other students in the MSCD classroom or workplace. Advisors are there to: help sort out the facts in a given situation, identify specific issues and concerns, recognize the perspective of others involved in a situation, articulate options for resolution, formulate strategies for resolving the situation, help navigate campus systems and advise the student on how to implement the chosen strategy.

Outstanding Student and Who's Who Awards - The Office of Student Life partners with academic departments and hosts the annual college-wide Outstanding Student Awards and the selection of nominees for Who's Who in American Universities and Colleges.

Judicial Affairs

The responsibility of the Office of Judicial Affairs is to administer the discipline system for MSCD. MSCD's Standards of Conduct clearly state the College's expectations for student behavior. For additional information, refer to the *Student Handbook* or visit the Tivoli, Room 311. Information is also available on our website at: www.mscd.edu/~judicial.

Student Activities

Tivoli Student Union (TV) 305, (303) 556-2595, studentactivities.mscd.edu

The Office of Student Activities enriches students' college experiences by helping them "Get Involved & Learn More" about campus life through dynamic activities such as events, co-curricular opportunities, student organizations, leadership education and Metro COOL.

Programs, Events and Co-curricular Opportunities help to stimulate, educate, challenge and entertain the student body. Through co-sponsorships with other universities, student organizations and academic departments, Student Activities facilitates bringing prominent national and local figures and stimulating experiences to the students. Specific programs include the following:

Distinguished Lecture Series

This series hosts locally, regionally and internationally recognized speakers who inspire students to think critically about current issues and events.

Student Organization Services

Metro Student Organizations provide a variety of programs that are stimulating and invigorating – enhancing students' co-curricular and extracurricular experiences. Student Organization Services can assist in helping students find the right organization or in creating a new one. We have more than 100 registered Student Organizations at Metro State.

Leadership

Join other students in exploring leadership through workshops, seminars, speakers and conferences. These programs are designed to give you the tool to create change in your community. Over 300 students participate in one of our leadership programs each year.

Metro COOL

Metro COOL is a campus-wide program offering on-going and one-time volunteer opportunities. Students can match up with local agencies looking for volunteers with our on-line database through the Student Activities Website. Metro COOL also sponsors monthly service events designed to make immediate impact on a community while connecting Metro students to one another. Make impact on your community today!

Student Technological Services

Student Technological Services is on the front line creating interactive, technologically stimulating and highly dynamic digital media. Through our efforts, the campus broadcasts events live across the Internet. By archiving videos of campus events for future release and Internet viewing, we are able to provide a wider outreach to those who are interested in campus archives. Student Technological Services also maintains and develops an online Discussion Forum for campus involvement, and creates interactive resource CDs and DVDs for a full service online activities office.

Laptop Lease

This exciting program provides students with an opportunity to lease an Apple™ laptop for a semester at an affordable price. These laptops are the latest in technology offering the ability to compute anywhere on campus and access the Internet wirelessly around campus. Enjoy the ability to write your term paper at home or under the old oak tree in the park.

Student Government Assembly

Metropolitan State College Student Government Assembly is an elected body that exists to represent and act in the interests of the students. Student Government Assembly (or SGA) works to create opportunities for student involvement and success through its programs, and works to sustain and improve them each year. SGA includes three additional elected representatives: the Board of Trustees Student Representative and the two representatives to the Student Advisory Committee to the Auraria Board (SACAB). Together the assembly works to ensure that students' voices are heard and represented in all levels of the College's administration. The SGA offices are located in the Tivoli Student Union, Room 307, phone number 303-556-3312. Our Web site is http://www.mscd.edu/~sga.

Student Media

The Office of Student Media, located in Tivoli Room 313, produces a variety of student-operated media designed to keep the campus informed and entertained. The office's diverse staff of students produces a weekly newspaper, The Metropolitan; a weekly video newscast, The Met Report; a web-based radio station, Met Radio; an annual literary and arts magazine, Metrosphere; and the annual Student Handbook.

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The Metropolitan offers students the opportunity to explore such fields as reporting, photography, Web page design, graphic arts, marketing and advertising through work experience. The Metropolitan and its Web site, The Met Online (http://www.mscd.edu/themet), are produced entirely by MSCD students and are published weekly during the fall and spring and monthly during the summer.

The Emmy Award-winning Met Report can be seen weekly on Comcast Channel 54 or on the Internet at http://metreport.mscd.edu. The newscast keeps students informed on campus happenings and Denver news.

Met Radio offers diverse, student-produced programming through its webcast at http://metradio.mscd.edu or at FM 88.3 in the Tivoli.

Metrosphere, MSCD's annual literary and arts magazine, is published each spring and features poetry, fiction, non-fiction, art and photography. Submissions for the student-produced magazine are accepted during the fall semester. Copies are distributed free to students and are available in Tivoli Room 313. Metrosphere can be found online at http://www.mscd.edu/msphere.

The Student Handbook is a complete guide to navigating Metro State. Published each year, the handbook offers information on everything from e-mail accounts to financial aid, as well as a section on academic and campus policies. It also is online at http://handbook.mscd.edu.

Students interested in working for the Office of Student Media should visit Tivoli Room 313 and fill out an application, or call 303-556-2507.

Campus Recreation

The Campus Recreation at Auraria program is among the most affordable ways that students have found to enjoy themselves, and it is among the best recreation programs offered in Colorado. The program is composed of the Drop-In Program (informal recreation), Intramurals, Outdoor Adventure, Personal Training, and the Physically Challenged Program. Student membership is free with a current, validated student ID.

The Drop-in Program provides group and individual activities for students, faculty, staff, alumni and guests. Facilities include three basketball courts, 6 tennis courts, volleyball courts, a 25-yard indoor pool, two handball/racquetball courts, one squash court, a fitness center, a dance studio, and a climbing wall. In addition, Campus Recreation offers a myariad of group fitness classes in step, hi-hop, muscle sculpting, cardio salsa, indoor cycling, abs & back, water fitness and more. The Drop-in Program also offers a new instructional component, Get Fit Clinics, which consists of a variety of noncredit instructional workshops, clinics and seminars. Check the Drop-in Program schedule in Room 108 of the Physical Education Building or call 303-556-3210 for a listing of available times.

The Intramural Program consists of individual and team activities open to all students, faculty and staff members. The emphasis of the program is on participation, sportsmanship and social interaction. Whenever possible, competitive and recreational divisions are offered to ensure participation for all ability levels. Activities include flag football, basketball, floor hockey, volleyball, dodge ball and racquetball leagues, as well as tennis tournaments.

Outdoor Adventure provides the opportunity to experience the beauty and challenge of nature through organized trips. The program provides outdoor recreational experiences emphasizing skill acquisition, social interaction, environmental awareness, and safety. Some of the many adventures offered are biking, canoeing, cross-country skiing, downhill skiing, family-fun outings, hiking, ice climbing, kayaking/rafting, naturalist outings, rock climbing, indoor climbing, and sailing. The program also provides rental equipment, including camping and hiking gear, canoes, and cross-country skis. The office is located in the basement of the Events Center.

The Physically Challenged Program offers a variety of sporting, recreational, and fitness opportunities for students with physical or learning limitations. The adaptive programs/services encompass one-on-one or group sessions that assist in using the recreation equipment and facilities. Information on planned group activities or individual help sessions is available in the Events Center, Room 108, 303-556-3210.

Intercollegiate Athletics

The Intercollegiate Athletics program plays an integral role in campus life at The Metropolitan State College of Denver. MSCD offer 12 intercollegiate sports programs: baseball, men's basketball, women's basketball, men's cross country, women's cross country, men's soccer, women's soccer, men's swimming and diving, women's swimming and diving, men's tennis, women's tennis and women's volleyball.

The teams, nicknamed the Roadrunners, compete at the Division II level of the National Collegiate Athletic Association (NCAA). The Roadrunners are members of the 14-member Rocky Mountain Athletic Conference (RMAC), which was founded in 1909 and features modest-sized schools with limited athletic budgets.

Scholarships are available for each of the 12 intercollegiate sports. They are distributed by individual coaches on the basis of merit, athletic ability and team needs. Scholarships are awarded on a yearly basis. The Intercollegiate Athletics Office is located in the Administration Building, Suite 560RR, 303-556-8300.

ALTERNATIVE CREDIT OPTIONS

Credit for Prior Learning

Successful completion of national examinations, departmental examinations, or a prior learning portfolio, or assessment of nonaccredited training programs through published guides may be used to award credit or may permit placement in advanced courses. A student may earn up to 60 semester hours of credit toward degree requirements using prior learning credit options. This credit will be posted to the student's record after the completion of 8 semester hours of residency credit at MSCD. Prior learning credit may not be used toward the last 12 semester hours of a degree program, does not substitute for residency requirements, and cannot be used to challenge prerequisite courses for courses already completed. Students are advised that letter grades are not assigned for such credit, and some institutions may not accept transfer credits that do not include letter grades. Additional information is available from the offices indicated in each section below.

Advanced Placement Examinations

Students who have performed satisfactorily in special college-level courses while in high school, and who have passed appropriate Advanced Placement (AP) examinations conducted by the College Entrance Examination Board may have official scores submitted directly to the Office of Admissions for consideration for college credit. This office, in consultation with the appropriate department chair, determines the amount and nature of the credit and/or advanced placement granted. AP credit is awarded after the completion of 8 credit hours at MSCD (see following chart). Students should contact www.collegeboard.com or 888-225-5427 to request official AP scores; MSCD's AP code is 4505.

COURSE CREDIT AWARDS FOR ADVANCED PLACEMENT EXAMS

AP SCORE	2	3	4	5
Biology		BIO 1080-3 & BIO 1090-1	BIO 1080-3 & BIO 1090-1	BIO 1080-3 & BIO 1090-1
Chemistry		CHE 1800-4	CHE 1800-4 CHE 1810-4 CHE 1850-2	CHE 1800-4 CHE 1810-4 CHE 1850-2
Computer Science (A)			CS 1050-4	CS 1050-4
Computer Science (AB)		CS 1050-4	CS 1050-4 CS 2050-4	CS 1050-4 CS 2050-4
Economics (Macro)		ECO 2010-3	ECO 2010-3	ECO 2010-3

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AP SCORE	2	3	4	5
Economics (Micro)		ECO 2020-3	ECO 2020-3	ECO 2020-3
English (Comp & Lit)		ENG 1010-3 ENG 1100-3	ENG 1010-3 ENG 1020-3 ENG 1100-3	ENG 1010-3 ENG 1020-3 ENG 1100-3
English (Lang & Comp)		ENG 1010-3	ENG 1010-3 ENG 1020-3	ENG 1010-3 ENG 1020-3
Gov't & Politics (U.S.)		PSC 1010-3	PSC 1010-3	PSC 1010-3
Gov't & Politics (Comparative)		PSC 1020-3	PSC 1020-3	PSC 1020-3
Geography- Human		GEG 1300-3	GEG 1300-3	GEG 1300-3
Environmental Science		ENV 1200-3	ENV1200-3	ENV1200-3
French Language		FRE 2110-3	FRE 2010-3 FRE 2110-3	FRE 2010-3 FRE 2020-3 FRE 2110-3
French Literature		FRE 2110-3	FRE 2110-3	FRE 2110-3 FRE 3010-3
German Language	GER 1020-5	GER 2110-3 GER 2120-3	GER 2110-3 GER 2120-3 GER 2310-3	GER 2110-3 GER 2120-3 GER 2310-3 GER 2320-3
German Literature	GER 1020-5	GER 2110-3 GER 2120-3	GER 2110-3 GER 2120-3 GER 2310-3	GER 2110-3 GER 2120-3 GER 2310-3 GER 2320-3
History (American)		HIS 1210-3	HIS 1210-3 HIS 1220-3	HIS 1210-3 HIS 1220-3
History (European)		HIS 1010-3	HIS 1010-3 HIS 1020-3	HIS 1010-3 HIS 1020-3
History (World)		HIS 1030-3	HIS 1030-3 HIS 1040-3	HIS 1030-3 HIS 1040-3
Math (Calc AB)		MTH 1400-4	MTH 1410-4	MTH 1410-4
Math (Calc BC)		MTH 1400-4	MTH 1410-4 MTH 2410-4	MTH 1410-4 MTH 2410-4
Physics (B)		PHY 2010-4 PHY 2030-1 PHY 2020-4 PHY 2040-1	PHY 2010-4 PHY 2030-1 PHY 2020-4 PHY 2040-1	PHY 2010-4 PHY 2030-1 PHY 2020-4 PHY 2040-1
Physics (C-Mechanics)		PHY 2311-4 PHY 2321-1	PHY 2311-4 PHY 2321-1	PHY 2311-4 PHY 2321-1
Physics (C-Magnetism, Elec)		PHY 2311-4 PHY 2321-1 PHY 2331-4 PHY 2341-1	PHY 2311-4 PHY 2321-1 PHY 2331-4 PHY 2341-1	PHY 2311-4 PHY 2321-1 PHY 2331-4 PHY 2341-1

AP SCORE	2	3	4	5
Psychology			PSY 1001-3	PSY 1001-3
Spanish Language	SPA 1020-5	SPA 2110-3 SPA 2120-3	SPA 2110-3 SPA 2120-3 SPA 2310-3	SPA 2110-3 SPA 2120-3 SPA 2310-3 SPA 2320-3
Spanish Literature	SPA 1020-5	SPA 2110-3 SPA 2120-3	SPA 2110-3 SPA 2120-3 SPA 2310-3	SPA 2110-3 SPA 2120-3 SPA 2310-3
Statistics		MTH 1210-4	MTH 1210-4	MTH 1210-4

International Baccalaureate

MSCD recognizes the high level of achievement that the International Baccalaureate (IB) Diploma Program represents. Students who complete the IB Diploma Program and the IB examinations are guaranteed admission to the College and are eligible to receive credit and advanced placement standing. To receive credit, a student must receive at least a score of four (4) on each IB examination and call 212-696-4464 to request that official scores be mailed directly to the Office of Admissions from the IB organization. For specific equivalencies, see the table below. Please contact the Office of Admissions at 303-556-3058 for more information. Students should consult with the appropriate department for further advising and with their major departments about acceptance of credits toward their majors.

INTERNATIONAL BACCALAUREATE TRANSFER CREDIT AWARD

IB Exam	Level of Exam	Exam Score	MSCD Equivalence	Semester Hours	MSCD General Studies Area
Anthropology	Higher	4 thru 7	ANT 1310 w/ 3 hrs elective	6	Social Sciences
	Standard	4 thru 7	Anthropology elective	3	Social Sciences
Art-Design A	Higher Standard	4 thru 7 4 thru 7	ART 1200 w/ 3 hrs elective ART 1200-3	6 3	
Art-Visual	Higher Standard	4 thru 7 4 thru 7	Art elective Art elective	6 3	
Biology	Higher	5 thru 7	BIO 1080-3, BIO 1090-1 w 2 hrs elective	6	Natural Sciences
	Higher Standard	4 4 thru 7	Biology elective BIO 1000-3	6 3	Natural Sciences
Chemistry	Higher	4 thru 7	CHE 1100-4, CHE 1150-1 w/ 1 hr elective	6	Natural Sciences
	Standard	4 thru 7	CHE 1010-3	3	Natural Sciences
Computer Science	Higher Standard	4 thru 7 4 thru 7	CMS 1010-3 w/ 3 hrs elective CMS 1010-3	6 3	
Dance	Higher	4 thru 7	Theatre elective	3	
Economics	Higher Standard	4 thru 7 4 thru 7	ECO 2010-3 w/ 3 hrs elective Economics elective	6 3	Social Sciences Social Science

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IB Exam	Level of Exam	Exam Score	MSCD Equivalence	Semester Hours	MSCD General Studies Area
English (A-1)	Higher	4 thru 7	ENG 1010-3, ENG 1100-3	6	Composition - 3
					Arts & Letters - 3
Foreign Lang (A1) French, German, Spanish	Higher	4 thru 7	FRE 3110-3 & FRE 3320-3 or GER 3010-3 & GER 3210-3 or SPA 3110-3 & SPA 3250-3	6	
opunion	Standard	4 thru 7	FRE, GER, SPA 1010-5, 1020-5	10	Communications
Foreign Lang (B)	Higher	4 thru 7	FRE 2010-3 & FRE 2020-3 or GER 2110-3 & GER 2120-3 or	6	
	Standard	4 thru 7	SPA 2110-3 & SPA 2120-3 FRE, GER, SPA 1010-5, 1020-5	10	Communications
Geography (Environmental Sys)	Higher Standard	4 thru 7 4 thru 7	ENV 1200-3 w/ 3 hrs elective Environmental elective	6 3	Natural Sciences Natural Sciences
History of Africa	Higher Standard	4 thru 7 4 thru 7	History elective History elective	6 3	Historical Historical
History of Americas	Higher Standard	4 thru 7 4 thru 7	History elective History elective	6 3	Historical Historical
History of Europe	Higher Standard	4 thru 7 4 thru 7	HIS 1010-3, HIS 1020-3 HIS 1010-3	6 3	Historical Historical
Japanese	Higher Standard	4 thru 7 4 thru 7	Modern Languages elective Modern Languages elective	6 3	
Latin	Higher Standard	4 thru 7 4 thru 7	Modern Languages elective Modern Languages elective	6 3	
Mathematics*	Higher Higher	5 thru 7 4	MTH 1410-4 MTH 1400-4	4 4	Mathematics Mathematics
Math Methods*	Standard Standard	5 thru 7 4	MTH 1110-4 Mathematics elective	4 3	Mathematics Mathematics
Math Studies*	Standard	4 thru 7	Mathematics elective	3	Mathematics
Physics	Higher	4 thru 7	PHY 2010-4, PHY 2020-4,	10	Natural Sciences
	Standard	4 thru 7	PHY 2030-1, PHY 2040-1 PHY 1000-4	4	Natural Sciences
Psychology	Higher Standard	4 thru 7 4 thru 7	PSY 1001-3 w/ 3 hrs elective Psychology elective	6 3	Social Sciences Social Sciences
Russian	Higher Standard	4 thru 7 4 thru 7	Modern Languages elective Modern Languages elective	6 3	
Theater	Higher Standard	4 thru 7 4 thru 7	THE 2210-3 w/ 3 hrs elective Theater elective	6 3	Arts & Letters Arts & Letters

^{*}See Math Department for further advising.

College-Level Examination Program (CLEP)

The College Level Examination Program (CLEP) consists of a series of national standardized examinations. They are designed to evaluate nonaccredited college-level learning in order to award credit for successful demonstration of this knowledge. Based on the results of one or more of the CLEP examinations that are accepted at MSCD, the College may award up to 30 credits toward the General Studies requirements. Thus, students may test out of many of the traditional courses required during the freshman year. Students are advised to check with their major departments for information on specific General Studies requirements that may not be met through the use of CLEP examinations.

MSCD does not allow CLEP to be used for ENG 1020, Freshman Composition: Analysis, Research and Documentation.

No more than 60 credits may be earned through all the approved CLEP examinations.

- Credit earned through the English composition with essay, humanities, natural sciences, social sciences/history, and college mathematics examinations may be applied only to General Studies requirements. Credit earned through the other approved examinations may apply to any requirements unless otherwise stated.
- Credit earned will be entered on the student's transcript with the title of the examination(s) and without reference to any specific MSCD course(s). CLEP examinations are recorded without reference to a letter grade and are not figured into the student's GPA. Credit earned through CLEP examinations does not count toward residency credit requirements and therefore may not be awarded as part of the last 12 credit hours applicable to a degree.
- Credit earned through CLEP examinations will not be recorded on the student's permanent record until the student has earned 8 hours in residency credit at MSCD. Students may take CLEP examinations prior to meeting the 8 credit hour residency requirement, in which case the scores will be maintained in the student's record and appropriate credit awarded when the 8 credit hour residency requirement is met.
- In order to have CLEP examination or military examination (DANTES) results evaluated, the student should have a copy of the official score report sent to, Metropolitan State College of Denver, Office of Admissions, Campus Box 16, P.O. Box 173362, Denver, CO 80217-3362. To request an official CLEP score report, contact www.collegeboard.com/clep or 800-257-9558. MSCD's CLEP code is 4505. DANTES test scores can be obtained by calling 850-452-1063.
- All CLEP examinations will be subject to the statement of policy in place at the time the scores are submitted, not the policy in place at the time the examination was taken.
- Credit awarded through CLEP examinations at other colleges or universities will be re-evaluated at MSCD according to the MSCD policy in place at the time the test scores are submitted. Students are advised to have an official copy of their score(s) sent to The College in order to have that credit evaluated.
- MSCD will not grant credit for a CLEP examination if prior to the semester the exam is taken, a student has completed, or was enrolled in, college courses equivalent to or more advanced than the subject material of the exam. Credit will not be recorded on a student's permanent record until all official transcripts from other regionally accredited colleges and universities attended by the student have been received and evaluated by the Office of Admissions.
- Any exception to these policies must be approved through the Board on Academic Standards Exceptions (B.A.S.E.). Information about filing an appeal through B.A.S.E. is available from the student's academic dean's office.
- Failure to achieve the required score(s) listed will not be entered on the permanent record. However, a copy of the CLEP score report will be retained in the student's file.
- Any examination may be repeated six months after the date of the previous examination.

For advising assistance with CLEP examinations and information about departmental credit by examination and portfolio assessment, students may contact the Center for Individualized Learning, St. Francis Center, 2nd floor, room 10, 303-556-8342. Additional information about the content and format of CLEP examinations is available through the College Board Web site at http://www.collegeboard.com/ clep. Examinations may be taken through the Community College of Denver Test Center, 303-556-3810, South Classroom Building 223. Other official testing centers can be found through the College Board Web site listed above.

	CLEP EXA	AMINATI	ON STANDARD	S
CLEP exam	Minimum Score for MSCD Credit	MSCD Credit	MSCD General Studies	No Credit for Prior Enrollment ²
American Government	56	3	Social Sciences	PSC 1010
American Literature	55	3	*	ENG 2210, 2220
Analysis and Interpretation of Literature ¹	60	3	Arts & Letters	ENG 1100,1110, 1120
English Composition with Essay	50	3	Freshmen Composition	ENG 1010 ¹
English Literature	55	3	*	ENG 2310, 2330
French Language	50	10	Communications	FRE 1010, 1020
French Language	62	16	Communications	FRE 1010, 1020, 2010, 2110
General Biology	57	3	Natural Sciences	BIO 1000
Calculus	54	3	Mathematics	MTH 1410
College Algebra	54	3	Mathematics	MTH 1110 ⁴
College Algebra- Trigonometry	54	3	Mathematics	MTH 1110, 1120, 1400 ⁴
College Mathematics	50	3	Mathematics	MTH 1080
General Chemistry	63	4	*	CHE 1800
General Chemistry	69	8	*	CHE 1800, 1810
German Language	50	10	Communications	GER 1010, 1020
German Language	63	16	Communications	GER 1010,1020, 2110, 2310
History of the US I	50	3	Historical	HIS 1210
History of the US II	50	3	Historical	HIS 1220
Humanities	50	6	Arts & Letters	ART 1040, MUS 1000, ENG 1100, 1110 or ENG 1120
Human Growth and Development ³	50	3	*	PSY 2210
Precalculus	54	3	Math	MTH 1400
Introductory Psychology ^{1,3}	50	3	*	PSY 1001
Introduction to Educational Psychology	50	3	*	PSY 1001
Introductory Sociology ¹	58	3	Social Sciences	SOC 1010
Information Systems and Computer Applications	66	3	*	CMS 1010, CSS 1010
Principles of Macroeconomics ¹	62	3	Social Sciences	ECO 2010

CLEP EXAMINATION STANDARDS					
CLEP exam	Minimum Score for MSCD Credit	MSCD Credit	MSCD General Studies	No Credit for Prior Enrollment ²	
Principles of Marketing	62	3	*	MKT 3000	
Principles of Microeconomics	61	3	Social Sciences	ECO 2020	
Principles of Management	50	3	*	MGT 3000	
Natural Sciences ¹	50	6	Natural Sciences	BIO 1000, AST 1040, CHE 1010, GEL 1010, PHY 1000	
Social Science and History ¹	50	6	Social Sciences	ECO 2010, HIS 1000, PSC 1010, PSY 1001, SOC 1010	
Spanish Language	50	10	Communications	SPA 1010, 1020	
Spanish Language	66	16	Communications	SPA 1010, 1020, 2110, 2120	
Trigonometry	54	3	Mathematics	MTH 1110, 1120 ⁴	
Western Civilization	50	3	Historical	HIS 1020	
Western Civilization II	50	3	Historical	HIS 1020	

^{*} Does not meet general education requirements

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

Attainment Examinations

Any student may take attainment examinations in some departments for the purpose of waiving specific graduation requirements. Passing such an examination, although it does not reduce the number of credits required for graduation, entitles students to substitute their own choice for the required subject. The examination is approximately the equivalent of the final examination in the course.

Departmental Credit by Examination

A department may grant a student credit for college courses for which the student requests and passes appropriate examinations. The charge for each credit hour requested is one-half the student's portion of in-state tuition for one credit hour, and must be paid prior to taking the examination. A maximum of 30 semester hours of credit may be awarded through departmental credit by examination. Credit through departmental examination is based on knowledge equivalent to a regular course offered by the College. Omnibus-numbered courses are excluded. Permission for departmental credit by examination must be obtained in advance from the instructor giving the examination, the department chair and the appropriate dean.

Although the examinations are essentially independent, where there is overlap, credit may be obtained by completing only one of the two overlapping examinations.

² If during or subsequent to the semester the exam is taken, the student earns credit in any course(s) in column 5, accepted at MSCD, the credit value of the course(s) will be subtracted from the corresponding CLEP credit previously awarded.

³ Introductory Psychology may be applied to a psychology major or minor.

⁴ Students wishing to take Calculus I at MSCD must first pass MSCD's departmental calculus place-

To earn credit by examination, a student must be currently enrolled in good standing in a degree or certificate program at the College. Credit by examination may not be counted as part of the last 12 credit hours of a degree program unless it is approved by the Board on Academic Standards Exceptions (BASE). Applications for submitting a request to BASE are available in the dean's offices in each school.

If a student has registered for a higher numbered course in a sequence, the exam for a prerequisite for that higher-numbered course must be completed within the first three weeks of the semester. Credit by examination for a course which is a prerequisite for a course already completed will not be granted unless approved by BASE.

Examinations cannot be taken to raise grades, to remove failures, or to remove "NC," "SP," "I," or "CC" notations. Credit by examination is not applicable toward academic residency requirements. Credit by examination cannot be obtained for a course in which a student has been enrolled at MSCD or at another regionally accredited college or university unless approved by BASE. Credit by examination will not be granted for courses attended as a listener, visitor or auditor.

Examinations for credit will be taken at a time specified by the department. A grade equivalent to "A" or "B" must be attained on the examination in order to receive credit, but credits so earned for the course will be recorded without a grade on the student's permanent record and are not considered in computing college grade point averages.

The hours granted for credit by exam are not included as a part of the student's semester enrollment. The credit will appear on the transcript for the semester in which the examination was taken, but the hours do not count as part of the student's total enrollment for the purposes of financial aid or any other purpose predicated on total hours of enrollment for a given semester.

Credit by examination will be posted after a student has completed eight semester hours of credit at Metropolitan State College of Denver, and after an evaluation of all transfer credit has been completed. The application form will be maintained in the student's file. No record of failures on such examinations will be entered on the student's permanent record. Departmental examinations attempted for course credit under these guidelines may not be repeated.

Applications for departmental credit by examination are available at the Center for Individualized Learning, (303-556-8342) and from the Office of the Registrar (CN 105).

Portfolio Assessment

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

The portfolio is developed with the assistance of the Center for Individualized Learning, 303-556-8342. Portfolio assessment may be used to apply for credit for specific course listed in the *Catalog*. Students may also apply for credit for omnibus courses through portfolio assessment with the permission of the appropriate academic department. Applicants for credit through portfolio assessment will generally be required to take EDS 2680-1, The Portfolio Development Workshop, which is offered as a correspondence course.

Policies that govern credit for prior learning options apply to credit awarded through the portfolio process. The charge for each credit hour assessed is one-half the student's portion of in-state tuition for one credit hour. The assessment charge is payable prior to evaluation of the portfolio by faculty for academic credit.

Contact the Center for Individualized Learning for assistance and further information (St. Francis Center, 2nd floor, room 10, 303-556-8342). Information sessions about portfolio assessment and other credit for prior learning options are held on a regular basis, and information is available on our Web site: www.mscd.edu/~cil/.

Credit for Military Training and Other Training Programs

Military training and other educational programs, including DANTES, that have been assessed for college credit by the American Council on Education (ACE) will be evaluated by the Office of Admissions for transfer credit at MSCD. For formal military training, copies of training certificates and a copy of the DD-214 or DD-295 should be submitted to the Office of Admissions. In addition, students with Army training should request that an official AARTS transcript be mailed directly to the Office of Admissions by calling 866-297-4427; those with Air Force training should request an official Community College of the Air Force transcript by calling 334-953-2794. Students with training from the Navy or Marines should request an official SMART transcript by calling 877-253-7122. For all other training, request official ACE transcripts by calling 202-939-9434. Credit limit is 30 semester hours.

Cooperative Education

The Cooperative Education Internship Center places students in work experiences related to their academic major and minor. The purpose of the internships is to integrate academic training with actual work experience. This combination allows students to make realistic career decisions, gain valuable work experience, obtain recommendations for graduate school, and earn money to help defray college expenses.

Students work in large corporations, small businesses, government and nonprofit agencies throughout the metropolitan area. Most co-op students are paid by their employers, but in those professional fields where co-op salaries are not available, volunteer internship placements are offered to help students gain essential work experience. Please see the programs described below.

Co-op internship placements are available in most academic majors and minors. Students must complete 30 semester hours of college course work with a minimum 2.50 GPA and have a declared major to be eligible for registration with co-op. No fees are charged to the student or employer for participation in the program, and each student's interests and job requirements are discussed individually with a professional coordinator.

Students may choose from three different work schedules based on the academic calendar. The alternating plan provides full-time periods of work every other semester with intervening semesters spent in full-time study. The parallel schedule places students in a job while they simultaneously attend school. These positions are usually part-time. The short term/summer plan allows students to elect a work experience that lasts for no more than one semester.

The College awards academic credit for supervised cooperative education placements. Students must complete a credit application, available from the co-op office, and this application must be approved by a faculty member from the department in which credit is to be granted. No more than 15 semester hours of cooperative education credit will be applied toward MSCD degree requirements. Credit earned for the co-op education work experiences are not applicable toward General Studies requirements. Additional departmental restrictions may apply to certain majors. Visit our Web site for additional information: www.mscd.edu/~cooped.

Service-Learning

The Service-Learning Program combines classroom experience with service to the metropolitan community and increases student appreciation of civic engagement. Participating students receive credit for appropriate public service, which is beneficial to the community and expands student horizons in intellectually and personally meaningful ways.

Emerging from a wide variety of disciplines, service-learning courses are structured by faculty to weave service into community-based and government agencies, with classroom reflection and analysis of the learning offered through these experiences. The courses are also designed to address real needs in our multicultural world, such as homelessness, at-risk youth, domestic violence, the environment, culture and the arts, and mental illness. Agencies that have provided service opportunities include Fort Logan

Mental Health Center, the Denver Commission on Aging, Big Sisters, the Colorado Historical Society, the Rape Assistance and Awareness Program, numerous elementary and high schools, and senior centers and nursing homes.

Service-learning credit is available in most academic majors and minors. Prerequisites and other requirements vary with each department. To learn how to participate in this program, including discussions of placement options, students should contact or visit the Service-Learning Program office to schedule an interview: 1045 Ninth Street Park: 303-556-3290.

Mentoring Program

Mentoring internships offer students intensive work experiences with mentors in business or industry. Students earn credit in the major or the minor for the learning that takes place in these unpaid positions that provide opportunities for intial work experience in various competitive fields under the guidance of established professionals. The mentors provide interns with resume enhancing experience and often help the students with decision making. Students should contact or visit our office to schedule an interview: 1045 Ninth Street Park; 303-556-3290.

SPECIAL ACADEMIC PROGRAMS

The Honors Program

The Honors Program provides an academic program for highly motivated students with broad academic interests. The program provides honors sections of General Studies courses and unique interdisciplinary courses. Honors courses are small in order to encourage class participation and a close relationship between students and faculty. Honors classes are designed to promote independent thought and creative inquiry. The director of the Honors Program and the Honors faculty provide academic advising and serve as mentors to students as they consider their post-graduate goals. The ultimate mission of the Honors Program is to create a community of scholars. It sponsors an Honors Club, an annual Honors Conference, and study-abroad courses which allow students to explore ideas outside the classroom. A student who completes 27 semester hours of honors courses, including a thesis, will receive an honors designation on his/her transcript.

An Honors application form may be obtained from the Honors Program Director or the Honors website. Students admitted to the Honors Program are eligible to apply for an Honors Scholarship. Additional information on the Honors Program is available by calling 303-556-4865/303-352-4103 or by inquiring in West Classroom Building, Room 147.

Re	equired Cou	rses
Н	ON 2750	The Legacy of Arts and Letters I*
Н	ON 2760	The Legacy of Arts and Letters II*
Н	ON 4950	Senior Honors Thesis
Sı	ubtotal	9
Studen	ts must tak	e at least nine (9) hours from the following:
Н	ON 2800	History of Science
Н	ON 2950	The Art of Critical Thinking*
Н	ON 3800	Revolutions and Social Change I*
Н	ON 3810	Revolutions and Social Change II*
Н	ON 3850	American Culture I*
	ON 3860	American Culture II*
		9
Elective		
Н	lonors stud	ents must choose three (3) elective courses with an Honors prefix in consultation with
		Program Director.
Sı	ubtotal	9
To	otal	27

^{*}Approved General Studies courses.

Individualized Degree Program

As a large, urban, undergraduate institution of higher education, Metropolitan State College of Denver has a commitment to respond to specific educational goals of a diverse student population. The individualized Degree Program enables the College to meet that commitment in three ways:

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

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

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

Interested students should contact the Center for Individualized Learning, 303-556-8342, for assistance and for complete information regarding the policies and procedures for the development and approval of an Individualized Studies major or minor. Information sessions are the first step in the process, and are held throughout the year.

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

- All requirements that apply to any bachelor's degree apply to Individualized Studies.
- A grade of "C" must be earned in each course included in the student's major or minor, and students must have a GPA of 2.5 before an Individualized Studies program may be approved.
- The title for each student's program will be Individualized Studies with an emphasis in _
- Majors may not include courses in Level II General Studies and may not include courses with the same prefix as the department from which the majority of credit is drawn for their major, or courses cross listed with that discipline.
- No more than 30 hours of credit from the School of Business may be included in the student's degree plan. In some cases this limit may be exceeded with the approval of the appropriate department chair and dean of the School of Business.
- Each Individualized Studies major or minor must include courses that have not yet been completed at the time the proposal is approved. See each IDP option below for the specific number of credits that must be completed after the proposal is approved by the department chair.

Proposals may be submitted for:

 An Individualized Studies MAJOR, which requires a minimum of 40 credit hours, including 21 hours of upper-division credit. Fifteen (15) hours must be completed after the proposal is approved by the department chair. A minor chosen from the Catalog is required.

- An Individualized Studies MINOR, which requires a minimum of 20 credit hours, including 6 hours of upper-division credit. Six (6) hours must be completed after the proposal is approved by the department chair. A major chosen from the Catalog is required.
- An Individualized Studies EXTENDED MAJOR may be proposed when the student's field of study requires more in-depth study or courses from multiple disciplines that cannot be accommodated in an IDP major. An extended major requires a minimum of 60 credit hours, including 27 hours of upper-division credit Twenty-one (21) hours must be completed after the proposal is approved by the department chair. No minor is required.

Reece Learning Communities

Metropolitan State College of Denver has created a comprehensive first year experience for provisionally admitted students via the Recce Learning Communities (RLCs). Students in the RLCs will be enrolled in courses specifically designed to be learning communities. One of the courses that all students will be required to complete, within a RLC, will be the Freshmen Success Course (FSC). This course would help first-year students adjust to the college, develop a better understanding of the learning process, and acquire essential academic success skills. The FSC will also include presentations by staff from academic affairs and student services regarding programs, resources and other support services currently provided at Metro. Students enrolled in the RLCs will be provided with academic support via several approaches including tutoring, supplemental instructors, and peer educators.

INTERNATIONAL & INTERCULTURAL EDUCATION

Metropolitan State College of Denver is committed to providing all students with a strong educational foundation that enhances their understanding of the total human experience. Through the following programs students and faculty have opportunities to develop and participate in activities designed to promote a greater understanding and expertise in global issues. MSCD seeks to maintain a positive environment that enhances the learning experiences of international students.

Individualized Degree Program

Students interested in pursuing an interdisciplinary major or a minor in international studies may do so through the Individualized Degree Program (IDP). The IDP allows students, in collaboration with a faculty mentor and the Center for Individualized Learning, to design a course of study that best meets their needs. Students may choose from a wide range of courses dealing with international topics that are regularly offered to complete a major or minor. Contact the Center for Individualized Learning at 303-556-8342, and see www.mscd.edu/~cil/.

Study Abroad Courses

MSCD offers a variety of short-term and semester-long study abroad courses each year. During the past several years, these courses have been held in Mexico, England, Germany, France, Spain, Italy, Central America, Russia, and Egypt. These courses are generally directed by full-time MSCD faculty, are two to five weeks in duration and are available to eligible students. Assistance is provided to students who choose to participate in study abroad courses offered by other U.S. or foreign universities.

The College operates two semester-abroad programs in Guadalajara, Mexico and London, England. These are offered in cooperation with the University of Guadalajara and the American Institute for Foreign Study/Richmond College partnership. Students must be in good academic standing in order to participate in these programs.

Contact the Office of Academic Affairs (303-556-3040) for information regarding the latest offerings.

International Student Services

MSCD provides a variety of services to international students attending the College. These include counseling on visas, school transfers, work permission and housing; conducting academic and cultural orientation sessions; assisting with immigration issues; providing information to embassies and sponsors; advising on academic issues; and organizing social and cultural events. International students should contact the Academic Advising Center.

Special Events

MSCD regularly organizes conferences, seminars, and lecture series to promote intellectual discourses on issues affecting the contemporary world.

Community Connections

MSCD maintains links with numerous local and national organizations and professional associations dealing with international, educational, economic, social, and cultural activities with a view to strengthen college-community partnerships and to remain current with the latest developments in the area of international education.

Language and Culture Institute

The Language and Culture Institute was established in 1976 to organize study and travel abroad. The institute currently operates a summer program in Mexico and a winter study and travel program in Mexico's Yucatan Peninsula and in Central America. The institute offers credit through the Modern Languages Department.

THE GENERAL STUDIES PROGRAM

Philosophy of the General Studies Program

Metropolitan State College of Denver seeks to prepare its graduates for a lifetime of learning, which, in our changing and complex society, requires focused expertise (such as that provided by a major area of study) and the ability to communicate with and learn from experts in other fields. Undergraduate education fosters the critical thinking necessary for the exploration of unfamiliar disciplines and for the synthesis of learning, and exposes students to the richness and variety of the intellectual universe.

State Guaranteed General Education Courses

Certain of MSCD's General Studies courses are approved as state guaranteed general education courses. This designation means that the course is transferable to general education or to electives at all Colorado public institutions and all undergraduate degree programs. General Studies courses not identified as guaranteed state transfer are also eligible for transfer to other institutions of higher education. Even if a state guaranteed course is selected, students need to select their General Studies courses with care. There is a Colorado core framework that restricts the number of state guaranteed courses that can be taken and applied to general education. In addition, certain statewide articulation agreements require specific General Studies courses. The six credits of composition, ENG 1010 and ENG 1020, will be acceptable anywhere in the state. With the exception of the sciences, students are advised to take only one state guaranteed course in each category below to maximize applicability for general education at another institution. For details go to www.state.co.us/cche/gened/gtpathways/index.pdf. State guaranteed general education courses are designated with a GT for Guaranteed Transfer. The rest of the code indicates the part of the core to which the course may apply.

GT-AH1 Arts and Expression GT-AH2 Literature and Humanities

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GT-AH3	Ways of Thinking
GT-AH4	Foreign Languages
GT-CO1	Introductory Writing
GT-CO2	Intermediate Writing
GT–HI1	History
GT-MA1	Mathematics
GT-SC1	Natural and Physical Sciences (with laboratory)
GT-SC2	Natural and Physical Sciences (without laboratory)
GT-SS1	Economic or Political Systems
GT-SS2	Geography
GT-SS3	Human Behavior, Culture or Social Frameworks

General Studies Information

Students must use a single catalog to meet all degree requirements, including those in the General Studies, major and minor. Some changes in General Studies requirements have been made retroactive. As a consequence, many General Studies requirements and policies described in this *Catalog* may be followed by students using earlier catalogs.

General Studies Goals

The General Studies Program is designed to help graduates achieve the following competencies: MSCD students should be able to:

- 1. Write and speak with clarity;
- 2. Read and listen critically;
- 3. Draw conclusions from quantitative data;
- 4. Recognize faulty reasoning;
- 5. Organize ideas; and
- 6. Communicate with experts in other disciplines and learn from them.

MSCD students should:

- 1. Have an open attitude toward different approaches to problems;
- 2. Have an informed awareness of the principal human achievements in history, arts and letters, society, and science; and
- 3. Be introduced to the basic methods, knowledge, problems or attitudes characteristic of a field.

Structure of the General Studies Program

The General Studies Program is structured to foster the development of skills and to encourage students to use their mastery of skills to explore knowledge in a variety of disciplines. The General Studies Program provides two levels of experience:

Level I: To provide students with the basic skills of language, mathematics, communications and critical thought. These include the skills of recognizing faulty reasoning, of reading and listening critically, of drawing conclusions from quantitative data, of organizing ideas, and of writing and speaking with clarity.

Level II: To provide the breadth characteristic of education, encourage an open attitude toward different approaches to problems, and cultivate informed awareness of the principal human achievements in history, arts and letters, society, and science. An educated person is one who is familiar with history, with the fine arts, with varied cultures, and with the scientific method. Level II courses should introduce the student to the basic methods, knowledge, problems, or attitudes characteristic of a field. Upper, as well as lower division courses should be available for Level II credit. In addition to meeting these criteria, Level II courses will provide opportunity for further development of Level I skills. Level II requirements shall be subdivided into four categories: Historical, Arts and Letters, Social Sciences, and the Natural Science.

Distribution and Credit Requirements

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

Level I*
Category
Composition
Mathematics
Communications
Level II**
Category
Historical
Arts and Letters
Social Sciences
Natural Sciences
Total***

^{*}A transfer course or courses judged to be similar in skill development and content to a Level I course will satisfy an individual Level I course requirement. Equivalency will be determined by the department offering the Level I course.

Basic Rules:

- The only courses that can be used to satisfy the General Studies approved requirements are those courses designated as General Studies Courses. Those courses are listed in the Catalog and the Catalog Addendum: General College Requirements (www.mscd.edu/academic/catalog/index.htm).
- Students may not use courses having the same prefix as their major or courses crosslisted with their major to satisfy their General Studies Level II requirements. (See c. below for specific requirements for History majors.) General Studies courses may be taken as electives or to satisfy requirements in the major; that is, General Studies courses do not have to be counted toward the General Studies requirements.
- · History majors will take three extra credit hours at Level II in either Arts and Letters, Social Sciences, or Natural Science in lieu of the three hours in the Historical category. Thus, History majors still have a total of 33 hours in General Studies. A History major may not use crosslisted courses in the Historical category, or courses crosslisted with a history course in any General Studies category.
- Courses taken using the pass/fail option cannot be used for General Studies credit.
- Lower division credit for biology courses of anatomy, physiology, and micro-biology, in which the student earned a grade of "C" or better, may be substituted for the Level II lower division natural science general studies requirement for all students with a nursing major.
- Students majoring in Human Performance and Sports will use BIO 1080-4, BIO-1090-1, BIO 2310-4, and BIO 2320-4 to satisfy the General Studies Level II Natural Science requirement. Students must take all four courses to meet the requirement. A student in HPS who switches to a different major will have to satisfy the Level II Natural Science requirements with the approved courses or alternatives specified in the Catalog Addendum: General College Requirements (www. mscd.edu/academic/catalog/index.htm).

^{**}One-hour deviations in the Level II categories may be allowed.

^{***}A student's completed General Studies Program must contain at least 33 semester hours.

LEVEL I REQUIREMENTS

COMPOSITION, MATHEMATICS AND COMMUNICATION

Freshman Assessment: Reading, Writing and Mathematics Placement Exams

First-time college students are required to complete the reading, writing, and mathematics placement examinations (see Reading, Writing and Mathematics Placement Examinations). Examination results serve as the basis for academic advising. To increase their opportunity for success, students may be required to take courses below the level of the first-year courses offered by MSCD. Degree-seeking students who are diagnosed as needing remedial course work have at their disposal basic skills courses offered through the Community College of Denver. Students are responsible for completing remedial course work no later than the end of the freshman year (i.e., within the first 30 semester hours matriculated as a college student). Students should be aware, however, that no credit is given for courses that are below the college level.

Placement Test Prerequisites

Students must have a passing score on the appropriate placement test before they will be allowed to register for Level I General Studies courses in English, mathematics and reading. Exceptions will be made for students who have earned at least a grade of at least "C" in the community college course specified by the department. The Assessment Center administers the placement tests. Students should consult an advisor in the Advising Center for guidance in selecting the appropriate Level I courses.

Composition Required Courses (minimum 6 semester hours)

REQU	IRED C	OURSES	SEMESTER HOUR	S
ENG	1010	(GT-CO1)	Freshman Composition: The Essay	3
ENG	1020	(GT-CO2)	Freshman Composition: Analysis, Research & Documentation	3

^{⇒ &}quot;GT-" indicates a state guaranteed general education course.

Rules: Composition Requirement

- Those students whose writing skills are inadequate will be required to complete developmental coursework in composition before enrolling for English 1010.
- Students must complete the English 1010 requirement within their first 30 hours at MSCD and
 the English 1020 requirement within the first 60 hours. These requirements may be postponed on
 an individual basis if the postponement is approved by the Department of English.
- Required English composition courses shall be at the freshman level.
- Students shall be considered to have satisfied the Level I English course requirement and credit
 will be granted if they:
 - ⇒ pass ENG 1010 and ENG 1020, or
 - ⇒ pass a CLEP or AP test approved by the Department of English, or
 - ⇒ transfer an equivalent course (see Rules Applying to Transfer Students above).

Mathematics (minimum 3 semester hours)

Required Cours	ses	Semester Hou	ırs
MTH 1080	(GT-MA1)	Mathematical Modes of Thought	3
MTH 1110	(GT-MA1)	College Algebra	4
MTH 1210	(GT-MA1)	Introduction to Statistics	4
MTH 1310	(GT-MA1)	Finite Mathematics for the Management & Social Sciences	4
MTH 1610	(GT-MA1)	Integrated Mathematics I	3

Rules: Mathematics Requirement

- Students will take a preassessment placement test to determine their abilities to solve elementary algebra problems and to know and use elementary geometrical formulas. Those students whose skills are inadequate will be required to complete developmental mathematics coursework before enrolling in any mathematics course. Students should be aware that since developmental courses are not taught at MSCD, no transfer credit will be given for such coursework.
- Students must complete the Level I mathematics requirement within their first 30 hours at MSCD. This requirement may be postponed on an individual basis if the postponement is approved by the Mathematical and Computer Sciences Department.
- Students shall be considered to have satisfied the Level I mathematics course requirement and credit will be granted if they:
 - ⇒ pass a mathematics course that has been approved for Level I mathematics credit (see courses listed above), or
 - pass a CLEP or AP examination approved by the Mathematical and Computer Sciences Department, or
 - successfully complete a mathematics course for which a Level I mathematics course is a pre-
 - ⇒ transfer an equivalent course, or
 - ⇒ complete a mathematics major or minor.

Communications (minimum 3 semester hours)*

Required Courses	Semester Hours
FRE 1020 Elementary French II	5
GER 1020 Elementary German II	5
HON 2950 The Art of Critical Thinking	
PHI 1110 Language, Logic & Persuasion	
RDG 1510 Cognitive Strategies for Analytical Re	ading 3
SPA 1020 Elementary Spanish II	5
SPE 1010 Public Speaking	
SPE 1620 / MDL 1620 American Sign Language	II 3
SPE 1710 Interpersonal Communication	

^{*}A transfer course or courses of at least 2 semester hours judged to be similar in skill development and content to a Level I course will satisfy an individual Level I course requirement. Equivalency is determined by the department offering the Level I course.

Rules: Communications Requirement

- Students must complete the required Level I communications course within their first 30 hours at Metropolitan State College of Denver.
- Students shall be considered to have satisfied the Level I communications course requirement and credit will be granted if they:
 - ⇒ pass an approved Level I communications course, or
 - pass a departmental test or a CLEP or AP test approved by a department offering an approved Level I communications course, or
 - transfer an equivalent course
 - pass or transfer an advanced public speaking course for which MSCD's SPE 1010 or a comparable course is a prerequisite.
 - \Rightarrow Transfer a second semester, four or five semster hour foreign language course or a more advanced language course that is taught in a language not offered at MSCD, or
 - pass or transfer an advanced foreign language course that is taught in the foreign language and that has MSCD's FRE 1020, GER 1020, and SPA 1010 or equivalent course work, or more advanced course as a prerequisite.

^{*}A transfer course or courses judged to be similar in skill development and content to a Level I course will satisfy an individual Level I course requirement. Equivalency is determined by the department offering the Level I course.

Students who have satisfied the communications requirement using the advanced foreign language course or the advanced public speaking course must place that course in the Level I communications requirement slot. Level II General Studies courses used to satisfy the Level I communications requirements cannot also be counted in the Level II category.

LEVEL II REQUIREMENTS

Courses approved to satisfy the Level II requirement are distributed among four categories. The categories, together with the minimum number of semester hours a student must accumulate to satisfy this requirement, are given below. One hour deviations in the General Studies Level II categories may be allowed, provided the student's completed General Studies program contains at least 33 credit hours.

Level II Categories

Historical		 	 	 	٠.	 	 	 	 		 	 	 		 	 	 		 	 	3
Arts and Letter	s	 	 	 		 	 		 	٠.	 	 	 	٠.	 	 	 		 	 	6
Social Science		 	 	 		 	 	 	 		 	 	 	٠.	 	 	 		 	 	6
Natural Science	e	 	 	 		 	 	 	 		 	 	 		 	 	 		 	 	6

Rules: Level II Requirement

Prerequisites: Level II General Studies courses have at least the following prerequisites or corequisites, and some courses have additional prerequisites (see the Course Descriptions section in this Catalog).

Historical and Arts and Letters:

- Courses numbered 1000 to 1990: minimum performance standard scores on reading and writing preassessment placement tests
- Courses numbered 2000 to 2990: satisfaction of ENG 1010 and the Level I communication requirement
- · Courses numbered 3000 and above: satisfaction of all Level I General Studies course requirements

Natural Science and Social Sciences:

- Courses numbered 1000 to 1990: minimum performance standards scores on the reading, writing and mathematics preassessment placement tests.
- Courses numbered 2000 to 2990: satisfaction of the Level I mathematics course requirement and either ENG 1010 or the Level I communication course requirement.
- Courses numbered 3000 and above: satisfaction of all Level I course requirements.
- Students **may not** use courses having the same prefix as their **major** discipline or crosslisted with their **major** discipline to satisfy the Level II requirements.
- Students **may** use courses having the same prefix as their **minor** discipline or crosslisted with their minor discipline to satisfy General Studies requirements. However, a minimum of 18 credits must be used only in the **minor** and not for General Studies. Deviations from the Catalog requirements require approval of the minor department, and some departments require that more than 18 credits be used only in the minor. Please contact the minor department for additional information.
- Students may use either prefix for a crosslisted course, i.e., one designated XXX (YYY). They must select the prefix they wish to use at registration; the selection may not be changed later.
- History majors must take three extra semester hours at Level II in the social science, arts and letters, or natural sciences categories in lieu of the three hours in the historical category.
- History majors may not use courses that are crosslisted with history courses for General Studies.

HISTORICAL (minimum 3 semester hours)*

History majors must take three extra semester hours at Level II in the Social Sciences, Arts & Letters, or Natural Science categories in lieu of the three hours in the Historical category. History majors may not use courses that are crosslisted with history courses for General Studies.

*A one-hour deviation in the General Studies Historical requirement may be allowed, provided the student has completed at least 33 semester hours of General Studies courses.

ARTS & LETTERS (minimum 6 semester hours)*

Arts & Letters courses impart a broad knowledge of important works and major schools of thought from at least two centuries. They also provide a foundation for critical evaluation within the discipline.

*A one-hour deviation in the General Studies arts and letters requirement may be allowed, provided the student has completed at least 33 semester hours of General Studies courses.

SOCIAL SCIENCES (minimum 6 semester hours)*

Social Sciences courses aim to explore the formation, behavior and interaction of various social, cultural, political or economic groups and institutions.

*A one-hour deviation in the General Studies Social Sciences requirement may be allowed, provided the student has completed at least 33 semester hours of General Studies courses.

NATURAL SCIENCE (minimum 6 semester hours)*

Natural Science courses provide an opportunity for students to experience the systematic formulation and testing of hypotheses and to learn the importance of accurate observation and measurement. Students will differentiate among fact, speculation, evidence, inference, belief, theory, law and generalization.

In order to receive General Studies credit, both BIO 1080 and 1090 or Bio 1081 and 1091, must be successfully completed. This is true also for State Guaranteed General Education credit.

CHE 1100 and CHE 1150 must be successfully completed to receive General Studies credit.

Successful completion of CHE 1850 and either CHE 1800 or 1810 will result in 6 hours Natural Science General Studies credit. Successful completion of all three courses will result in 10 hours of General Studies credit. CHE 1800 is a prerequisite for CHE 1850. CHE 1850 has a corequisite of CHE 1810.

A one-hour deviation in the General Studies Natural Science requirement may be allowed, provided the student has completed at least 33 semester hours of General Studies courses.

ADDITIONAL GRADUATION REQUIREMENTS

Multicultural and Senior Experience Course Requirements

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

Multicultural Graduation Requirements (minimum 3 semester hours)

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

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

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

Multicultural Graduation Designation Course Work:

Multicultural courses that are approved for the College's graduation requirement are listed in the Course Description section of this Catalog. This designation is noted in parenthesis at the end of each course description as "multicultural." Please Note: All multicultural courses are under review by the Multicultural Curriculum Review Committee. Some courses have the stipulation "Multicultural removal 2008-09." Consult with your academic advisor about which multicultural course applies to your degree.

Transferability of Multicultural Credits

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

- 1. Transferable courses taken at an accredited institution to meet a multicultural or similar diversity requirement will satisfy the MSCD multicultural requirement.
- Transferable courses equivalent to an existing multicultural course will satisfy the MSCD multicultural requirement. Equivalency will be determined by the department offering the course.
 Once a course has been approved by a department, it will be given the status of an approved transferable multicultural course.
- 3. If a transferable course is interdisciplinary, MSCD transfer evaluators will consult with the department(s) where the majority of the course content resides.
- 4. A one-hour deviation in the multicultural requirement will be allowed for courses judged to be similar in content to an existing MSCD multicultural course. Equivalency will be determined by the department offering the multicultural course.
- 5. Full credit or a one-hour deviation in the multicultural requirement will be allowed when the transferable course meets MSCD's multicultural definition and course criteria, although a similar course is not taught at MSCD.
- If transferable courses do not clearly meet MSCD's multicultural definition, transfer evaluators
 may request an opinion from the Faculty Senate Curriculum Committee and/or the Multicultural
 Curriculum Review Committee.

Senior Year Assessment Examinations and Other Activities

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

Senior Experience Graduation Requirements (Minimum 3 Semester Hours)

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

ACADEMIC POLICIES AND PROCEDURES **Semester Hours Credit**

Course credit is based on units designated as semester hours. One semester hour or one base contact hour equals a minimum of 750 minutes; this translates to a minimum of fifteen, 50-minute class hours per semester. Time required for class preparation is not a consideration in the calculation of course credit. A three semester hour course will require six to nine hours of work each week outside of class. Omnibus courses involving laboratory work give one semester hour of credit for each two, three or four hours of scheduled work in the laboratory during a week, depending on the course. Internships require a minimum of 2,250 minutes for each hour of credit.

Course Load

The average course load per 16-week semester is 15 or 16 semester hours. Students who are academically strong may take up to 18 semester hours during fall and spring semesters and up to 12 semester hours during the summer semester. During fall and spring semesters, students with cumulative MSCD grade point averages (GPAs) of 3.25 or higher may take 19 or 20 semester hours and those students with GPAs of 3.50 or higher may take 21 semester hours for fall and spring semester or 14 semester hours for the summer semester. Students must have completed at least 15 semester hours at MSCD. Authorization for overloads for students without these qualifications must be obtained from the student's major department chair and appropriate dean. Forms are available from the department, deans' offices, or online.

Student Classification

Students are classified according to the number of semester hours of credit earned: freshmen fewer than 30; sophomores 30 or more, but fewer than 60; juniors 60 or more, but fewer than 90; seniors 90 or more.

Declaring/Changing a Major

Applicants to Metropolitan State College of Denver may indicate their intended major on the MSCD Application for Admission. Degree-seeking students who wish to change a major must complete a Declaration/Change of Major form, which is available from the major department or from the Academic Advising Center. Non-degree-seeking students who wish to declare a major must first change to degreeseeking status by completing a Change of Status form with the Admissions Office.

Curriculum, Advising and Program Planning (CAPP)

CAPP produces a Compliance Report that is an advising tool to be used by students and their advisors throughout the students' academic career at MSCD. Students with declared majors and/or minors should discuss their progress toward completion of their major (minor) program with their faculty advisor. They should have a CAPP Compliance Report run no later than the start of the senior year. CAPP Compliance Reports can be run in the student's major department or by logging on to Metro-Connect (http://metroconnect.mscd.edu). Approved adjustments to the CAPP Compliance Report should be submitted as soon as possible by the department to the Office of the Registrar. Degree-seeking students must apply for degree candidacy by completing an Application for Graduation in the Office of the Registrar at the start of their final semester.

Selection of Catalog for Degree Requirements

Students must use a single MSCD catalog to meet all their degree requirements, including the General Studies, major and minor requirements. Students must select a degree catalog in effect while they are enrolled at MSCD unless they are transferring from a regionally accredited Colorado community college, provided that the degree catalog contains their complete program of study. Students not enrolling for three consecutive semesters or more, including summer, are governed by the catalog in effect upon their return. For effective dates of catalogs, students should consult their academic advisors. All degree programs must adhere to overriding current policies at MSCD. Students transferring from a regionally accredited Colorado community college may complete degree requirements using an MSCD catalog in effect while enrolled at the community college, subject to the following conditions:

- The degree catalog selected does not predate the current catalog by more than three years.
- The degree catalog selected may have been in use at any time from the time the student was continually enrolled* at a regionally accredited Colorado community college to the semester for which the student is enrolling in MSCD.
- The degree catalog clause applies except for overriding college or state policy, except where specific programs otherwise require. Consult the pages describing your program for these requirements.

*Continuous enrollment is defined as not interrupting enrollment for three or more consecutive semesters (one calendar year); summer is counted as a semester. Continuous enrollment must be maintained from the period of the designated MSCD catalog to the point of MSCD degree completion.

Graduation Procedures

Degree-seeking students formally declare their degree candidacy by filing an Application for Graduation with the Office of the Registrar just prior to their anticipated semester of graduation, but no later than the deadline stipulated in the Academic Calendar section of this *Catalog* and on MSCD's Web site (http://www.mscd.edu/academic/acal.htm). The Application for Graduation should be filed only by students who intend to complete all degree requirements by the end of the upcoming semester and should be filed in consultation with the student's major department. If a student does not graduate, another Application for Graduation must be submitted for a subsequent semester.

Students who anticipate completing all degree requirements within the next two semesters should review the following sections of this *Catalog*: Requirements for All Bachelor Degrees; Academic Policies and Procedures (pertaining to Curriculum, Advising and Program Planning [CAPP], Graduation, Diplomas and Commencement, and Honors and Awards).

After students have completed 90 earned credit hours at MSCD, including approved transfer credits, they should obtain a CAPP Compliance Report by requesting one from their major department or by logging on to http://metroconnect.mscd.edu. After reviewing the CAPP report with their faculty advisor (major and minor), if any adjustments are needed, the department will submit an adjustment form to the Office of the Registrar. Once adjustments are made, an updated Compliance Report will be mailed to the student.

Application for Graduation: File an Application for Graduation with the Office of the Registrar by the following deadlines: for Fall 2007 graduation, file by August 31, 2007; for Spring 2008 graduation, file by

February 1, 2008; and for Summer 2008 graduation, file by June 6, 2008. Students should file an Application for Graduation only if they will complete all degree requirements that semester.

After submitting the Application for Graduation, students will have their academic records reviewed for completion of all degree requirements. All degree applicants will be mailed a CAPP Compliance Report indicating their graduation status and any discrepencies that exist. Students will be given a deadline by which to explain these discrepencies to the graduation office. Students will not be eligible as candidates for graduation if they do not comply with this deadline. As candidates for graduation, students will receive information about the final steps in the graudation process and the commencement ceremony. Students should ensure that their current address is on file with the Office of the Registrar.

There are commencement ceremonies at the end of the fall and spring semesters. Graduates are encouraged to attend one of the two ceremonies. The commencement program lists candidates, degree, and degree honors, if any. Although there is no commencement ceremony in the summer, students can still graduate. Summer candidates are asked to attend the fall commencement ceremony. Their names, degrees and honors, if any, will appear only in the fall commencement program. Check MSCD's Web site for complete, up-to-date information about commencement at www.mscd.edu/student/commencement/.

Diplomas are issued approximately three weeks after the semester ends. Students may pick up their diplomas or make arrangements for them to be mailed. Information will be sent from the Office of the Registrar to graduating students about these arrangements.

Transcripts with the posted degree will also be available approximately three weeks after the semester ends. Students may request transcripts as early as the middle of their last semester and indicate that it is to be held until the degree is posted. All transcripts are free. Transcripts may be requested in person at the Office of the Registrar, CN 105, by fax at 303-556-3999, or via the Web at the Registrar's homepage http://www.mscd.edu/enroll/registrar under transcripts. Diplomas and transcripts will NOT be issued if money is owed to the College. If you owe any money to the College, please contact the Office of Student Accounts, 303-556-6188, to arrange payment.

Diplomas and Commencement

Students who have met all requirements for graduation are granted diplomas at the end of the semester for which they are degree candidates. Diplomas may be withheld because of indebtedness to the College. Completion of two majors does not result in two degrees or diplomas. A formal commencement ceremony is held at the end of the spring and fall semesters. Summer graduates are invited to attend the following fall commencement. For commencement information call 303-556-6226, or at www.mscd.edu.

Transcript of Records

An official transcript is a certified copy of a student's permanent academic record. Transcripts are free. You can order transcripts by logging on to MetroConnect (http://metroconnect.mscd.edu). There is a charge for faxed transcripts. Transcripts will be released by the Registrar's Office upon formal written request by the student. Transcripts will also be issued to firms and employers if written authorization is received from the student. Requests should include the student's full legal name as recorded while attending MSCD, student identification number, last term of attendance, number of copies desired, and to whom and where transcripts are to be sent. Transcripts may be withheld because of indebtedness to the College or for other appropriate reasons. Copies of transcripts from other institutions that are on file in the Registrar's Office will be issued upon signed request by the student. Students from other institutions taking MSCD courses under the state college system or interinstitutional registration programs must request transcripts from their home institution.

Falsified Transcripts and Diplomas

Altering, modifying, tampering with, or in any way falsifying an official Metropolitan State College of Denver transcript or diploma is a crime. The College has implemented multiple measures to detect such conduct. To protect the integrity and value of a Metro State degree, the Attorney General will vigorously prosecute through the criminal justice system those who commit these crimes.

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

Honors and Awards

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

Information and applications for these awards are available in Central Classroom Building, room 313. Awards are presented at the annual banquet the night before graduation.

In addition to annual awards, students with outstanding academic achievements are recognized by being named on the College's Honor Lists. The President's Honor List carries the names of students who, at the time of computation, have achieved a cumulative GPA of 3.85 or higher. The Provost's Honor List carries the names of students who, at the time of computation, have achieved a cumulative GPA of between 3.50 and 3.84, inclusively. Computation will occur initially when the student has completed between 30 and 60 hours at MSCD, then again between 60 and 90 hours, and finally after more than 90 hours. Honors will only be computed three times in a student's academic life at the College. Posting of the award occurs within the first two weeks of the following semester. Questions should be directed to the Office of Academic Affairs at 303-556-3040.

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

- **Summa Cum Laude** Top five percent of graduates within each school with cumulative MSCD GPA of no less than 3.65.
- Magna Cum Laude Next five percent of graduates within each school with cumulative MSCD GPA of no less than 3.65.
- Cum Laude Next five percent of graduates within each school with cumulative MSCD GPA of no less than 3.65.
- To determine each Honors category, GPAs for the previous spring semester graduates are arrayed in rank order. This rank ordering is then used to determine the honors recipients among the following fall, spring and summer graduates.
- To qualify for graduation honor recognition, a student must have completed a minimum of 50 semester hours of academic credit at MSCD prior to the term of graduation.
- Courses completed during the term of graduation and transfer credits are not considered when determining honors.

Honors designations are added to the student's official academic record; no other notification will be sent. For additional information regarding graduation honors, contact the Office of Academic Affairs at 303-556-3040.

Grades and Notations

Faculty MUST assign a grade:

Every student on the E-Grade worksheet must be given a grade or grade notation. The appropriate grade and grade notations will appear in the grade drop-down box for each student. Faculty members may NOT leave the E-Grade box blank. The Registrar's Office will remind faculty of this through emails prior to grading at the end of each semester.

Grades

Alphabetical grades and status symbols are as follows:

A — Superior	4 quality points per semester hour attempted
B — Above Average	3 quality points per semester hour attempted
C — Average	2 quality points per semester hour attempted
D — Below Average but Passing	1 quality point per semester hour attempted
F — Failure	0 quality points per semester hour attempted
(Grade)# — Preparatory	0 quality points per semester hour attempted

Notations

- AP Advanced Placement
- CC Continuing Correspondence Course
- CL College Level Examination Program (CLEP)
- EX Credit by Exam
- I Incomplete (incompletes will change to an "F" if not completed in 3 semesters, including summer)
- NC No Credit
- NR Not Reported. No grade was reported by the faculty by the deadline to submit grades. Student must see faculty for an explanation or assignment of grade. Courses taken through interinstitutional registration are normally assigned the "NR" notation until grades are received and posted to the academic record. Students who receive a "NR" notation on their final grade report may be severely impacted. Financial aid, enrollment status, veterans' status and probation/suspension depend on students receiving all their grades.
- P –
- PL Portfolio Assessment
- PP PEP Exam
- Satisfactory (limited to internships, practicums, field experience courses and workshops)
- SA Study Abroad
- Satisfactory/Education or Music Recital Attendance (limited to ECE 4390, EDS 4290, EDU 4190, EDU 4590, SED 4190 and SED 4500; MUS xxx)
- SN Study Abroad no credit
- U Unsatisfactory (equals "F" and computed in GPA)
- UE Unsatisfactory/Education or Music Recital Attendance (equals "F" and computed in GPA)

I (Incomplete)

The Incomplete (I) notation may be assigned when a student, who was achieving satisfactory progress in a course and who had completed most class assignments, is unable to take the final examination and/or did not complete all class assignments due to unusual circumstances such as hospitalization. Incomplete work denoted by the Incomplete "I" notation must be completed within one calendar year or earlier, at the discretion of the faculty member. If the incomplete work is not completed within one year, the "I" notation will convert to an "F."

Students must have completed at least 75% of the course work to qualify for consideration for an Incomplete. The student must be passing the course in order to be granted an Incomplete.

Determination of eligibility does not guarantee that an Incomplete will be granted. Students who do meet the qualifications may request an Incomplete from the faculty member who is teaching the course. The decision to grant an Incomplete is up to the faculty member and department discretion.

If an Incomplete is granted, the student and instructor should fill out and sign an Incomplete Agreement form in order to clarify what the student needs to do to complete the course.

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

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

The "I" notation may not be given for a self-paced course. If a student does not complete a self-paced course within the semester s/he enrolled in the course, s/he must re-enroll in the course in order to complete it.

If a student receives an "I" in an online class, the instructor should contact Instructional Technology who will add the student to the online course roster so that the student will be able to logon to the course. This must be done by the instructor each semester the student continues to work on the course.

In order for an "I" to be changed to a letter grade, the incomplete work must be completed for the course for which the student originally registered. The student should NOT re-enroll for the same course unless his/her intent is to retake the entire course. In this case, the student will pay tuition and fees.

NC/Withdrawal (No Credit)

The No Credit (NC) notation is not a grade. It may indicate withdrawal from the course or course repetition. (The "NC" should not be confused with a schedule change during the first 12 days of the fall or spring term [8 days for the summer term]. During this period a student may drop a course, and it will not appear on the student's academic record.)

The "NC" notation may be used in self-paced courses to indicate that the student has not completed the self-paced course(s) and requires additional time to increase the student's proficiency. In this case, to earn credit the student must re-register for and pay tuition and fees for the course in a subsequent term. Deadlines as described in this section apply.

- The following minimal standards shall be required throughout the College and shall be a part of all school, department, and individual faculty policies. The following is for full term classes for fall and spring semesters. Specific NC deadlines for full term classes for fall, spring, and summer semesters are published in that term's class schedule. Prorated deadlines are available from the Office of the Registrar and the Student Accounts Office for "part-of-term" classes. "Part-of-term" classes are those classes which have start and/or end dates different from those of full-term classes. The "NC" notation is available to students for full term classes in all instances from the 12th day of the term through the fourth week of classes for fall and spring semesters. The period during which students may request an NC without the faculty member's signature will be established for summer part-of-term and weekend courses based on percentages of the term. Deadlines for weekend and "part-of-term" classes are available from the Office of the Registrar and from the Student Accounts Office. The deadline for requesting an NC without faculty approval for full-term classes is published in the class schedule for each term. Students are expected to attend all sessions of courses for which they are registered. Each instructor determines when a student's absences have reached a point at which they jeopardize the student's success in a course. When absences become excessive, the student may receive a failing grade for the course. If attendance is a part of the grading criteria, that policy should be included in the individual faculty member's class policies and outline and distributed to students on the first day of class.
- During this period, students may request an NC ONLY online at MetroConnect.
- Students reducing their course load between the beginning of the fifth and the end of the tenth week of full term classes during fall and spring semesters may receive an "NC" notation for each course provided faculty approval is granted and indicated on the request form by the faculty member's signature or the department chair's signature in the case of the absence of the faculty member who is the instructor of record. NC request forms with the instructor's signature for full term

classes are due to the Office of the Registrar by the deadline noted in the class schedule for any given term. Part-of-term NC deadlines are available from the Office of the Registrar or the Office of Student Accounts.

- · Additional restrictions regarding assigning the "NC" notation may be set by each school, department, and/or faculty member for the period between the beginning of the fifth and the end of the tenth week of the semester (or proportional time frame). Such additional restrictions should be included in the instructor's class outline and policies which are distributed to all students on the first day of class.
- · Student requests for an "NC" notation in a given course will not be granted after the tenth week of the fall and spring semester or after the published date for summer term for full-term classes (or after the part-of-term deadlines for requesting an NC with the signature of the faculty member) unless the request is approved by the faculty member, the department chair and the dean. The "I" notation may be used during this period, provided the conditions specified in the "I" explanation above apply.
- Proportional time frames are applied for part-of-term courses, weekend courses, workshops and summer terms. These deadlines are available from the Office of the Registrar or the Office of Student Accounts. Deadlines for full-term summer classes are published in the class schedule.
- A written policy statement describing the use of the "NC" notation will be given to each student for each class in which the student enrolls.

Students are expected to attend all sessions of courses for which they are registered. Each instructor determines when a student's absences have reached a point at which they jeopardize the student's success in a course. When absences become excessive, the student may receive a failing grade for the course. If attendance is a part of the grading criteria, that policy should be included in the individual faculty member's class policies and outline and distributed to students on the first day of class.

Students who withdraw from a course or courses because of the death of an immediate family member, serious illness or medical emergency, or employment changes beyond the control of the student may file a Tuition and Fees Appeal Form through the Office of Student Accounts. In these cases, the student is still required to obtain an NC for each course s/he is withdrawing from according to the guidelines above. If the student is incapacitated and unable to contact his/her instructor(s), the student or her/his representative, may contact the Office of the Registrar, the academic department chair, or the dean for assistance in contacting the faculty and requesting withdrawal as indicated by the NC notation.

Computing Grade Point Average/ Quality Points

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

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

Pass-Fail Option

The pass/fail option encourages students to venture out of their major and minor fields and thereby broaden their educational experience. A student must declare interest in the pass/fail option no later than the 12th day of classes for fall and spring, the eighth day of classes for summer or the second day of classes for parts-of-term of any semester (see the Academic Calendar on MSCD's Web site (http://www. mscd.edu/academic/acal.htm) for specific deadlines) by contacting the Office of the Registrar and completing the Request for Pass/Fail Option. Once approved, the request for the pass/fail option is irrevocable. A student who requests the option and later is declared ineligible will receive written notification from the Office of the Registrar.

Students who have completed at least one MSCD course with at least a 2.00 cumulative GPA may choose to be evaluated for a certain course on a pass/fail basis rather than by a letter grade. Major, minor, General Studies and other courses required for a degree and courses for teacher licensure may NOT be taken on a pass/fail basis. Self-paced courses may NOT be taken under the pass/fail option. Maximum graduation credit for pass/fail courses is 18 credit hours earned in no more than six courses and limited to one course per semester or part-of-term. Course work must be graded to determine if it is pass or fail.

The "pass" grade (P) has no effect on the GPA; the "fail" grade is equivalent to the grade of "F." The "pass" grade (P) is equivalent to the grade of D or better. Pass/fail courses are under the same "NC" guidelines and deadlines as other courses in the institution whether those guidelines and deadlines are established college wide or by individual schools or departments

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

Repeated Courses (Last Grade Stands)

A student may repeat certain courses taken at Metropolitan State College of Denver regardless of the original grade earned. Only the credit and the grade for the last attempt of the course will remain on the student's official academic record. The grade(s) for all prior attempts will be changed to the "NC" notation unless a permanent F has been assigned. Repeated courses must carry the same title, course number and semester hours. To effect the grade change, the student must re-register and pay the full tuition for the class in question, complete the class earning a letter grade, and complete the Last Grade Stands form in the Office of the Registrar. Otherwise, the grade change will be made administratively prior to graduation. Credit duplication involving transfer, interinstitutional, or state college system courses may be treated differently from the above procedures (see number 4 below). A FAILING COURSE GRADE ASSIGNED AS A RESULT OF ACADEMIC DISHONESTY IS CONSIDERED A PERMANENT "F" AND CANNOT BE CONSIDERED UNDER THIS POLICY. A student may not repeat a course and request "last grade stands" after the completion of an MSCD degree that includes the course in question. Specifically:

- 1. In certain cases, except for grades assigned for academic dishonesty, the grades of all but the last entry of the particular course will be changed to an "NC" (no credit, withdrawal) notation. The NC notation does not affect the credit total and GPA.
- 2. The determination of course equivalency will be made by the Office of the Registrar in consultation with the academic department.
- 3. If the student does not request that the previous grade(s) of a course be changed to an "NC" after the course is repeated, the grade change will be made administratively prior to graduation. The Last Grade Stands Policy cannot be used after the student graduates from the College for courses taken prior to the date the degree is awarded.
- 4. Students who have earned a degree at MSCD and subsequently take additional courses or work toward a second degree may use last grade stands for courses for which the original enrollment is after the first degree is awarded.
- 5. The same policy is applied when a course taken at another institution and transferred to MSCD is later repeated at MSCD. The transferred credit is then revoked.
- 6. An exception to this policy occurs when a student takes a course at MSCD, then repeats the course at another institution and returns to or is still in attendance at MSCD. In this case, since the course is not repeated on the MSCD records, the MSCD course will not be changed to an "NC," but rather, the transfer credit will be disallowed.
- 7. The Last Grade Stands policy applies only to MSCD courses. Courses taken under the Interinstitutional/Consortium or "pooled" programs do not qualify for consideration under this policy. However, this policy does apply to a UCDHSC course if repeated through the MSCD/UCDHSC-pooled program.

8. Courses repeated prior to the summer quarter of 1971 are not affected by this Last Grade Stands policy. A grade in a course taken prior to the summer quarter, 1971 and repeated after summer, 1971 may be changed to an "NC" notation with the use of the grade exception form.

Student Grade Appeal Procedure

If students have reason to question the validity of a grade received in a course, they must make their request for a change before the end of the fourth week of the semester following the completion of the course (the following fall semester in the case of the spring semester). The Grade Appeal Guidelines can be obtained from the students' respective deans. It is the responsibility of the student to initiate a grade appeal within the time limit, and to follow the procedures specified for grade appeals in the current Student Handbook. The handbook may be obtained from the Office of Student Services. All decisions of the Grade Appeal Committee are final.

WARNING/PROBATION/SUSPENSION POLICY

Academic Satisfactory Progress/Good Standing

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

Academic Warning Status

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

Academic Probation

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

A student is removed from academic probation and is in good standing the semester after achieving a cumulative GPA of at least 2.0.

During any semester that a student is on academic probation, the student must make progress toward good standing with the institution by taking all of the following actions:

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

While on academic probation, a student may pre-register for the first semester following the academic warning status semester, but is prohibited from pre-registering any other semester. For subsequent academic probation status semesters, a GPA of at least 2.2 must be verified prior to registration.

Academic Suspension

A student on academic probation not making progress toward good standing will be prohibited from registering for one calendar year from the date of suspension. Appeal of suspension for this reason will be submitted to the director of Student Intervention Services. The director of Student Intervention Services will then deliver the appeal materials to the Student Academic Review Committee, which will review the appeal and notify the student of its decision. A student may appeal a suspension only two times in his or her academic career at the College.

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

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

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

Contact Student Intervention Services at 303-556-4048 for further information.

WITHDRAWAL/EMERGENCY

Students who must withdraw from all classes during a semester due to a serious personal or medical emergency should contact the Student Accounts Office, CN 110, 303-556-6188 for assistance and information on emergency withdrawal procedures.

Students who must withdraw from all classes during a semester due to a military or state call to action should contact Veterans' Services, CN 105, 303-556-2993 for assistance.

STUDENT RIGHTS AND RESPONSIBILITIES

Policies and Procedures

Generally, the policies and procedures contained in this *College Catalog* must be followed by students currently enrolled for the 2007 fall semester and the 2008 spring and summer semesters.

The procedures and policies contained in this section are subject to change, as the College deems necessary. If you have a concern, please check with the appropriate office. An abbreviated version of the policies and procedures are contained in this section. For the complete *Students Rights and Responsibilities*, you may access the Web at http://handbook.mscd.edu/index2.html to confirm the policies and/or procedures you need to follow.

Exceptions (B.A.S.E.)

Students may appeal to the Board of Academic Standards Exceptions (B.A.S.E.) to request a variance from College academic requirements. Valid reasons for variances must accompany all petitions, and the petitions must be signed by the appropriate dean and department chair. For more information, contact the Office of Academic Affairs, 303-556-3040.

Academic Honesty

Students have a responsibility to maintain standards of academic ethics and honesty. Cases of cheating or plagiarism are handled within the policies of Academic Affairs in accordance with procedures outlined in the MSCD Student Handbook.

Conduct of Students

MSCD policy provides students the largest degree of freedom consistent with good work and orderly conduct. The Student Handbook contains standards of conduct to which students are expected to adhere. Information regarding students' rights and responsibilities, including the student due process procedure (the procedural rights provided to students at MSCD before disciplinary action is imposed), is available in Tivoli 311, Central Classroom 313, or via the Web at: http://handbook.mscd.edu/index2.html.

Student Conduct Code

The Student Conduct Code is not intended to replace existing procedures related to:

- · Discrimination or sexual harassment
- Grade appeals
- Requests for exceptions to academic policies
- Appeals for tuition and fee reduction
- Disputes relative to financial aid awards
- Instate tuition classification

For any other matters that are not included above, contact the Office of Student Life. It is a resource for accurate information and advocacy on behalf of the students of the College. Student Life personnel can advise and assist students with unusual circumstances, or with problems not addressed in the Student Handbook or College Catalog, for example.

Respect for Rights of Others

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

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

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

Freedom of Speech

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

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

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

74 POLICIES AND PROCEDURES

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

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

Academic Rights

Students have the right to:

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

Academic Responsibilities

Students have the responsibility to:

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

Academic Misconduct

Academic dishonesty or misconduct is a serious offense at the College because it diminishes the quality of scholarship and the learning experience for everyone on campus. In order to encourage and foster academic excellence, the College expects students to conduct themselves in accordance with certain generally accepted norms of scholarship and professional behavior. Because of this expectation, the College does not condone any form of academic misconduct.

Academic misconduct includes, but is not limited to, plagiarism, cheating, fabrication, multiple submissions, collaboration, or facilitation of academic dishonesty, or knowingly or recklessly furnishing false information to the College. Academic misconduct is an unacceptable activity in scholarship, and is in conflict with academic and professional ethics and morals. Consequently, students who are found to have engaged in some form of academic misconduct may be subject to:

- 1. Reduction in grade, including a zero or an "F" or permanent "F" on the work in question.
- 2. Other academic penalties as outlined in the professor's course requirements and expectations, and/or syllabus.
- 3. Disciplinary action and/or other sanctions that will be determined on the basis of the seriousness of the offense.
- 4. Any combination thereof.

Generally, a student's intentions will not be the primary consideration in the determination of whether academic misconduct has occurred. A student's intentions will usually be considered only during the process of deciding on the appropriate sanctions or penalties.

Definitions of academic misconduct include, but are not limited to:

Plagiarism is the act of appropriating another's work. This includes, but is not limited to the following:

- 1. The written, artistic, or musical composition of another; or the ideas, language, or symbols of same and passing them off as the product of one's own work.
- 2. The lifting of a substantial or essential portion of another's work.
- 3. The unacknowledged use of materials prepared by another person or agency, including Web sites, that may or may not be engaged in the selling of term papers or other academic material.

Cheating is the act of using or attempting to use, in examination or other academic work or material, information, or study aids which are not permitted by the instructor. Cheating includes, but is not limited to:

- 1. Using books, notes, or calculators, or copying from or conversing with others during an examination.
- 2. Having someone else do research, write papers, or take examinations.
- 3. Doing research, writing papers, or taking examinations for someone else.
- 4. Possession, use, or distribution of tests or other academic material belonging to a member of the college faculty, staff, or other students.

Fabrication is the invention or falsification of material or its source and its use as an authority in academic work. Fabrication includes, but is not limited to:

- 1 Inventing the data for a scientific experiment.
- 2. Inventing the title and author of a publication in order to use the invented publication as a source.
- 3. Knowingly attributing material to an incorrect source.

Academic Dishonesty Procedures, Student Conduct Code and Judicial Process

Refer to the most current Student Handbook in the Office of Student Life for complete information. You may also access it via the Web at: http://handbook.mscd.edu/index2.html. Additional information is also available on the Judicial Affairs website at: www.mscd.edu/~judicial/.

Sexual Harassment

Sexual harassment is a form of discrimination based on sex. It is prohibited by law and College policy. In the educational context, sexual harassment is defined as any unwelcome sexual advance, request for sexual favors, or other verbal or physical conduct of a sexual nature when:

- a. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's status in a course, program, activity, or educational evaluation
- b. submission to or rejection of such conduct is used as the basis for educational decisions affecting that individual
- c. such conduct has the purpose or effect of unreasonably interfering with an individual's academic performance or educational experience, or of creating an intimidating, hostile or offensive educational environment

Charges of sexual harassment can be based on a wide variety of behaviors, such as repeated derogatory sexual remarks, negotiation for sexual favors as a *quid pro quo* for grades or recommendations or threatened or actual sexual assault. These and similar behaviors seriously undermine the teaching and learning environment and can be grounds for disciplinary action. Sexual harassment should be reported to the Office of Equal Opportunity at 303-556-4746. Sexual assaults should be reported to the Auraria Campus Police at 303-556-3271.

Written policies addressing these issues in greater detail are available from the Office of Equal Opportunity and Affirmative Action in Central Classroom (CN) 315 or call 303-556-4746.

Amorous Relationships Involving Students and College Employees

Members of the College community, whether faculty members or administrative staff, put academic and professional trust and ethics at risk when they engage in amorous romantic/sexual relationships with people whose academic and/or professional benefits and opportunities are, or appear to be, subject to their authority, supervision or influence. Accordingly, the College prohibits such relationships, as well as any attempt to initiate or engage in such relationships. Any faculty member or administrator who engages in, or attempts to engage in, an amorous relationship with a student or subordinate shall report any such relationship or attempt to the EEO Officer.

Sexual harassment of an employee or student will lead to disciplinary action. In the case of an employee, such discipline may include termination. In case of students, such discipline may include expulsion.

Class Attendance

Attendance during the first week of class is required. It contributes greatly to teaching and learning. Some departments determine a student's enrollment in a course based upon attendance during the first week of class. Consult the department for more information about the attendance policy for the class that you are attending. Students who drop classes are financially responsible for those classes in accordance with the withdrawal/refund policies stated on the web class schedule on Metroconnect (metroconnect.mscd.edu).

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

Students at MSCD who, because of their sincerely held religious beliefs, are unable to attend classes, take examinations, participate in graded activities or submit graded assignments on particular days shall, without penalty, be excused from such classes and be given a meaningful opportunity to make

up such examinations and graded activities or assignments provided that proper notice and procedures are followed. The policies and procedures designed to excuse class attendance on religious holidays are covered in the MSCD Student Handbook.

Final Examinations

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

Equal Opportunity and Americans with Disabilities Act

Metropolitan State College of Denver is an equal opportunity employer; applications from minorities and women are particularly invited. Metropolitan State College of Denver does not discriminate on the basis of race, color, creed, national origin, sex, age, sexual orientation or disability in admissions or access to, or treatment or employment in, its educational programs or activities. Inquiries concerning the College grievance procedures may be directed to the designated MSCD officials. Inquiries concerning Title VI and Title IX may be referred to Dr. Percy Morehouse, Jr., MSCD Office of Equal Opportunity, Campus Box 63, P.O. Box 173362, Denver, CO 80217-3362, 303-556-4746. Inquiries concerning the Americans with Disabilities Act (ADA) or 504 may be referred to Ms. Kirsten Moore, Faculty and Staff ADA Coordinator, MSCD, Campus Box 47, P.O. Box 173362, Denver, CO 80217-3362, 303-556-8514; Mr. Steve Monaco, Student ADA Coordinator, 303-556-3881; Mr. Greg Sullivan, Director Access Center, MSCD, Campus Box 56, P.O. Box 173361, Denver, CO 80217-3361, 303-556-8387. Otherwise, all inquiries may be referred to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Denver, CO 80204, 303-844-3723.

Family Educational Rights and Privacy Act

Student Rights

Metropolitan State College of Denver maintains educational records for each student who has enrolled at the College. A copy of the College's policy on student educational records may be obtained from the Office of the Registrar, Central Classroom Building, Room 105. Under the Family Educational Rights and Privacy Act of 1974 (FERPA), 20 USC 1232g, and the implementing regulations published at 34 CFR part 99, each eligible student has the right to:

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

Procedure for Inspecting and Reviewing Educational Records

Students may inspect and review their education records upon a written request submitted to the Registrar, Central Classroom, Room 105, or by mail to Campus Box 84, P.O. Box 173362, Denver, Colorado 80217-3362.

- A. The request shall identify as precisely as possible the record or records the student wishes to
- B. The record custodian or an appropriate staff person shall make the arrangements for access as promptly as possible and notify the student of the time and place where the records may be inspected. Access must be given within 45 days from the receipt of the request.

C. When a record contains information about more than one student, the student may inspect and review only the records that relate to that student.

Procedure for Amending Educational Records

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

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

Nondisclosure and Exceptions

Pursuant to FERPA, the College will not disclose a student's education records without the written consent of the student except to College officials with legitimate educational interests, to officials at other institutions in which the student seeks to enroll; in connection with providing financial aid to the student; to accrediting agencies in carrying out their functions; to federal, state or local authorities auditing or evaluating the College's compliance with education programs; to consultants conducting studies on behalf of the College; in compliance with a judicial order or subpoena; and in connection with a health or safety emergency involving the student. However, the College may release directory information without the prior written consent of the student unless within ten (10) calendar days after the first scheduled class day of each term, an enrolled student has notified the College's Office of the Registrar in writing that any or all types of directory information shall not be disclosed without the consent of the student. A request for nondisclosure will remain in effect until the student is no longer enrolled or cancels the request for nondisclosure.

A school official is a person employed by the College in an administrative, supervisory, academic or research, or support staff position; or a person elected to the Board of Trustees; or a person employed by or under contract to the College to perform a special task, such as attorney, auditor or consultant; or a student or other person serving on an official College committee or assisting a school official in performing the official's professional duties and responsibilities. A legitimate educational interest is the need of a school official to review educational records in order to fulfill that official's professional duties and responsibilities.

Directory Information

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

- name, address and telephone number
- date and place of birth
- student classification
- major and minor fields of study
- participation in officially recognized activities and sports
- · weight and height of members of athletic teams
- dates of attendance at the College
- · degrees and awards received
- · last educational institution attended

Graduation Rate, The Student Right-to-Know Act and **Campus Secutiry Act**

This report was prepared by the Office of Institutional Research at Metropolitan State College of Denver to comply with the federal Student Right-to-Know and Campus Security Act of 1990. Our latest sixyear graduation rate, for the 2000 cohort of first-time, full-time students is 22.4%.

CAMPUS CRIME INFORMATION Auraria Campus CLERY Stastistical Report Campus and Public Property

CRIMINAL OFFENSES	On Campus			Public Property		
	2002	2003	2004	2002	2003	2004
Murder and Non-Negligent Manslaughter	0	0	0	0	0	0
Negligent Manslaughter	0	0	0	0	0	0
Forcible Sex Offenses	0	0	0	0	0	0
Non-Forcible Sex Offenses	0	0	0	0	0	0
Robbery	1	1	0	7	5	1
Aggravated Assault	3	5	2	2	5	2
Motor Vehicle Theft	15	9	12	9	4	6
Arson	0	1	0	0	2	0

*The reason for the marked increase is due to the definition provided in the "Handbook for Campus Crime Reporting" published by the US Dept of Education/2005 stating "If lawful entry cannot be proven, classify as a burglary." Many of these crimes were previously classified as a theft which is a non-reportable offense for Clery.

HATE CRIMES	0	On Campus			Public Property		
	2002	2003	2004	2002	2003	2004	
Murder and Non-Negligent Manslaughter	0	0	0	0	0	0	
Negligent Manslaughter	0	0	0	0	0	0	
Forcible Sex Offenss	0	0	0	0	0	0	
Non-Forcible Sex Offences	0	0	0	0	0	0	
Robbery	0	0	0	0	0	0	

HATE CRIMES	On Campus			Public Property		
	2002	2003	2004	2002	2003	2004
Aggravated Assault	0	0	0	0	0	0
Burglary	0	0	0	0	0	0
Motor Vehicle Theft	0	0	0	0	0	0
Arson	0	0	0	0	0	0
Other Crimes Involving Bodily Injury	0	0	0	0	0	0

ARRESTS	On Campus			Public Property		
	2002	2003	2004	2002	2003	2004
Liquor Law Violations	0	6	0	0	60**	10
Drug Law Violations	13	16	9	6	26	13**
Illegal Weapons Possession	2	1	1	2	5	1**

^{**}The reason for the marked decrease is due to the definition provided in the "Handbook for Campus Crime Reporting" published by the US Dept of Education/2005 stating "All public property, including thoroughfares, streets, sidewalks, and parking facilities, that is within the campus, or immediately adjacent to and accessible from the campus." be included; essentially, sidewalk, street, sidewalk. The Auraria Campus was previously over-reporting the statistics.





the School of Business

We educate Denver's business workforce.



SCHOOL OF BUSINESS

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

The school provides convenient access to instruction through traditional classroom sessions and innovative online delivery, at the main Auraria campus, both Metro South and Metro North campus, during the day, evenings, and weekends. The school consists of 70 full-time faculty, more than 50 part-time faculty, and 8 full-time staff. Over 3600 students major in business and economics. Students can take advantage of on-the-job training through cooperative education placements, internships, and independent study course work.

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

Mission

The school's mission statement reflects our efforts to provide students with the best possible education we can offer:

Our mission is to develop undergraduate students into effective business professionals by preparing students for careers and lifelong learning with an awareness of ethics, technological advancements, and globalization.

We facilitate learning through excellence in teaching by maintaining currency in the disciplines, using appropriate pedagogy, and providing individual attention to students.

We deliver a quality, accessible undergraduate business education in the metropolitan Denver area to a diverse student population.

The school offers degrees in six majors:

Bachelors of Science Degree Programs

- Accounting
- Computer Information Systems
- Finance (General Finance, Financial Services)
- Management
- Marketing

Bachelors of Arts Degree Program

Economics

In addition, we offer an International Business Concentration for business majors and a total of nine minors designed for non-business majors.

The various educational opportunities available through the School of Business are listed on the next page. Course descriptions and prerequisites are found beginning on page 359 of this *Catalog*.

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

SCHOOL OF BUSINESS PREREQUISITE AND ATTENDANCE POLICY

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

Prior to attending an upper-division course offered in the School of Business Bachelors of Science programs (Accounting, Computer Information Systems, Finance, Management, Marketing), all students must have:

- completed all Level I General Studies requirements;
- completed at least 60 credit hours overall (junior standing);
- declared a major in any discipline or be of non-degree seeking status.

Bachelors of Science Degree Programs

Students may earn a Bachelors of Science degree in accounting, computer information systems, finance, management, or marketing. The degree requires completion of course work in general studies, the core business disciplines and requirements, a major, and electives. A minor is not required.

Business Program Residency Requirements

To earn a Bachelor of Science degree in Business, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250.

Business Degree Program Planning

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

- All degree-seeking students must meet the College's requirements for all bachelor's degrees outlined in the general information section of this Catalog.
- During the first 60 credit hours, business majors should complete their General Studies Levels I and II courses and the 2000-level business core courses.
- The College requires at least 40 credit hours of upper-division courses (3000 or 4000 level). Consult with an advisor to ensure that your specific degree program meets this requirement.
- If a student pursuing a degree other than a Bachelors of Science from the School of Business wishes to enroll in business courses beyond 30 hours, the student must declare a major with the School of Business. The 30 hours excludes up to 9 credit hours in economics and the following courses: CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, or FIN 2250.
- A minor is not required for students whose major is accounting, computer information systems, finance, management or marketing.

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

ACCOUNTING DEGREE PROGRAM

The accounting program prepares students for entry into careers in public accounting, industry, tax, and the government sector, as well as graduate education and lifelong learning. The field of accounting is moving rapidly toward a greater emphasis in the areas of information systems, management consulting, and leadership in organizational change. Accountants can obtain a variety of professional certifications, including Certified Public Accountant, Certified Internal Auditor, Certified Fraud Examiner, Certified Information Systems Auditor, and Certified Management Accountant. Each professional certification program includes rigorous education, examination, experience, and ethics requirements.

Mission Statement:

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

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

Successful accounting students possess these skills and attributes:

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

Students majoring in accounting and interested in pursuing an International Business concentration should see an advisor.

Program Requirements

All candidates for a Bachelor of Science degree in Accounting must satisfy the General Studies requirements, the business core course requirements, and the School of Business requirements described in the following sections. The basic structure of the accounting program is:

COURSES	SEMESTER HOURS
General Studies (Level I and Level II)	
Business Core	33
School of Business requirements	9
Major in Accounting	
Unrestricted Electives*	
Total Hours (minimum)	

^{*}The College's multicultural requirement may be satisfied by taking an approved multicultural course in general studies or electives portion of the degree requirement.

Students must satisfy the assessment requirement of the department in order to earn a bachelors degree in Accounting.

NOTE: Unrestricted Elective credits may vary. Total unrestricted electives must be sufficient for student to meet the College's minimum required 120 credit hours.

General Studies

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

GENERAL STUDIES REQUIRED BY THE SCHOOL OF BUSINESS SEMESTER HOURS

General Studies Level I

Composition

ENG 1	010	Freshman Composition: The Essay	3
ENG 1	020	Freshman Composition: Analysis, Research, and Documentation	3
Mathem	natics		
MTH 1	310*	Finite Mathematics for the Management and Social Sciences	4

	Comi	nunicat	ions
	SPE	1010	Public Speaking
	able fo	or transf	110 or MTH 1400, with graphing calculator experience strongly recommended, is accepter students or students changing their major. Consult with the Mathematical and Com-Department on substitutions.
Gen	eral St	udies L	evel II
	Histo	rical Stu	adies
	HIS		(an American history course is recommended)
	Arts a	nd Lett	
	PHI	1030	Ethics
		-or-	
	PHI	3360	Business Ethics
	Level	II Arts a	nd Letters elective (refer to Catalog Addendum: General College Requirements) 3
	Socia	l Scienc	es
	PSY	1001*	Introductory Psychology
		-or-	
	SOC	1010	Introduction to Sociology
	PSC	1010	American National Government
		-or-	
	PSC	1020	Political Systems and Ideas
		ral Scien	
			ral Sciences electives (refer to Catalog Addendum: General College Requirements) 6
	Total	of Requi	red and Elective General Studies
	* Mat	" DCV o	2000 is acceptable for transfer students
	INOLE	. rsi 80	000 is acceptable for transfer students.

Business Core

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in Accounting. A grade of "C" or better must be earned in each business core course to have that course count toward the Bachelor of Science degree in Accounting.

	REQU	IRED C	OURSES SEMESTER HOURS	
	ACC	2010	Principles of Accounting I	
	ACC	2020	Principles of Accounting II	
	CIS	2010	Computer Applications for Business	
	CIS	2300	Business Statistics	
	CIS	3340	Advanced Business Statistics	
	FIN	3300	Managerial Finance	
	MGT	2210	Legal Environment of Business I	
	MGT	3000	Organizational Management	
	MGT	4950	Strategic Management	
	MKT	2040	Business Communication	
	MKT	3000	Principles of Marketing	
	Total I	Hours Re	quired in Business Core	
0.1		c =		
Sch	ool	ot Bu	siness Requirements	
	REQU	IRED C	OURSESSEMESTER HOURS	
	ECO	2010	Principles of Economics-Macro	
	ECO	2020	Principles of Economics-Micro	
	MTH	1320	Calculus for the Management and Social Sciences	
	Total I	Hours for	School of Business Requirement	

Students majoring in Accounting and interested in pursuing an International Business concentration should see an advisor.

Accounting Major Requirements

REQU	IRED CO	DURSES SEMESTER HOURS
ACC	3090	Income Tax I
ACC	3300	Accounting Information Systems
ACC	3400	Cost Accounting
ACC	3510	Intermediate Accounting I
ACC	3520	Intermediate Accounting II
Subtot	al	
Plus 9	hours fr	om the following courses including at least one 4000 level course:
ACC	3100	Income Tax II
ACC	3110	Volunteer Income Tax Assistance (VITA)
ACC	3200	Governmental Accounting
ACC	3410	Advanced Cost Accounting
ACC	4090	Tax Procedures and Research
ACC	4100	Tax Planning
ACC	4200	Auditing and Attestation
ACC	4300	Advanced Auditing
ACC	4510	Advanced Accounting
ACC	4520	Mergers and Acquisitions
ACC	4650	Fraud: Issues in Accounting and Auditing
Total F	lours Req	uired for Accounting Major

Students interested in becoming Certified Public Accountants should be aware that the majority of states (Colorado not included) require 150 semester hours of education to sit for the uniform CPA examination. MSCD offers classes that satisfy both the 150-hour requirement and Colorado's "education in lieu of experience" option for certification.

To earn a Bachelor's degree in Accounting, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT, and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250. A student must complete at least eight (8) upper-division semester hours in Accounting at MSCD.

Students should consult an accounting faculty advisor to develop an appropriate academic program. A wide variety of internship opportunities are available through the Cooperative Education Office.

COMPUTER INFORMATION SYSTEMS DEGREE PROGRAM

With a degree in the rapidly expanding area of information systems in the business world, students can look forward to challenging careers in computer information systems.

Mission Statement:

The Computer Information Systems Department delivers high quality, accessible undergraduate business information systems education to a diverse student population. We prepare students to analyze, design, develop, and use business applications utilizing contemporary technology. We provide a balance between fundamental information systems concepts and the application of these concepts from a future-oriented perspective.

The Computer Information Systems Department provides undergraduate major, minor, and certificate programs in information systems. We offer service courses in information systems and quantitative methods to School of Business students, and applied computer courses to students college-wide.

The Computer Information Systems Department faculty pursues excellence in teaching and learning as its primary purpose. We provide degree and career planning assistance. We nurture

learning through individual attention to students. The faculty aggressively engage in professional development activities to enhance instruction and contribute to scholarship and applied research, and engage in pursuit of currency in Information Systems. The faculty integrate current technology into the curriculum and provide service to the institution, the profession and the community at large.

Successful students in the Computer Information Systems program will be able to demonstrate skills and competencies in the following areas:

- Computer Information Systems theory and concepts and their application to the functional areas of business;
- Project management tools and techniques as they apply to Information Systems projects;
- Programming processes including planning, writing, testing, executing and debugging;
- Database design, development and management;
- Telecommunications and networking systems;
- Web-based systems;
- Operating systems;
- Knowledge of how to create and utilize team approaches to problem solving;
- Advanced knowledge in an Information Systems area;
- Ability to support the delivery and management of information systems.

Students majoring in computer information systems are encouraged to select advanced courses that best meet their needs in areas such as systems analysis, design, and development; programming; database management/administration; data communications; networks/network administration; electronic commerce; web site development/administration; and management of information systems. Advising for these areas is available from the department chair and individual faculty members.

Students pursuing a bachelor's degree in Computer Information Systems are required to participate in assessment activities at both the department and school levels during their senior year.

Students majoring in Computer Information Systems and interested in pursuing an International Business Concentration should see an advisor.

Computer Information Systems Major for Bachelors of Science

All candidates for a Bachelors of Science degree in computer information systems must satisfy the General Studies requirements, the business core course requirements, the School of Business requirements, and the major requirements described in the following sections. The basic structure of the computer information systems program is:

REQUIRED COURSES	SEMESTER HOURS
General Studies (Level I and Level II)	34
Business Core	33
School of Business requirements	9
Major in Computer Information Systems	27
Unrestricted Electives*	
Total Hours (minimum)	120

^{*}The College's multicultural requirement may be satisfied by taking an approved multicultural course in general studies or electives portion of the degree requirement.

NOTE: Unrestricted Elective credits may vary. Total unrestricted electives must be sufficient for student to meet the College's minimum required 120 credit hours.

General Studies

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

General Studies Level I
REQUIRED COURSES
Composition
ENG 1010 Freshman Composition: The Essay
ENG 1020 Freshman Composition: Analysis, Research, and Documentation
Mathematics
MTH 1310* Finite Mathematics for the Management and Social Sciences
Communications
SPE 1010 Public Speaking
*Note: MTH 1110 or MTH 1400, with graphing calculator experience strongly recommended, is
acceptable for transfer students or students changing their major. Consult with the Mathematical and
Computer Sciences Department on substitutions.
General Studies Level II
Historical Studies
HIS (American history course recommended)
Arts and Letters
PHI 1030 Ethics
-0r-
PHI 3360 Business Ethics
Level II Arts and Letters elective (refer to Catalog Addendum: General College Requirements) 3
Social Sciences
PSY 1001* Introductory Psychology
-Or-
SOC 1010 Introduction to Sociology
PSC 1010 American National Government
-0r-
PSC 1020 Political Systems and Ideas
Natural Sciences
Level II Natural Sciences electives (refer to Catalog Addendum: General College Requirements) 6
Total of Required and Elective General Studies
AN DOWNSON THE CONTRACTOR

^{*} Note: PSY 8000 is acceptable for transfer students.

Business Core

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in computer information systems. A grade of "C" or better must be earned in each business core course to have that course count toward the Bachelors of Science degree in computer information systems.

REQUIRED C	OURSESSEMESTER HOURS
ACC 2010	Principles of Accounting I
CIS 2010	Computer Applications for Business
ACC 2020	Principles of Accounting II
MKT 2040	Business Communication
MGT 2210	Legal Environment of Business I
CIS 2300	Business Statistics
MGT 3000	Organizational Management
MKT 3000	Principles of Marketing
FIN 3300	Managerial Finance
CIS 3340	Advanced Business Statistics

	MGT	4950	Strategic Management	,
	Total l	Hours Re	equired in Business Core	3
Sch	ool	of Bu	siness Requirements	
	REQU	TRED C	OURSESSEMESTER HOURS	5
	MTH	1320	Calculus for the Management and Social Sciences	5
	ECO	2010	Principles of Economics-Macro	,
	ECO	2020	Principles of Economics-Micro	,
	Total 1	Hours fo	r School of Business Requirement)
Coı	•		Iformation Systems Major Requirements OURSESSEMESTER HOURS	
	CIS	2110	Structure Problem Solving in Information Systems	
	CIS	3050	Fundamentals of System Analysis and Design	
	CIS	3060	Database Management Systems	
	CIS	3230	Telecommunications Systems and Networking	
	CIS	3145	Business Application Development with Visual Basic	
	CIS	4050	Systems Analysis and Design	5
	Comp	uter Inf	ormation Systems Capstone Group	
			(any 4000-level CIS course excluding CIS 4050)	,
			n CIS Electives	
	Total F	Iours Red	quired for Computer Information Systems Major	7

To earn a Bachelor's degree in computer information systems, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250. A student must complete at least eight (8) upper-division semester hours in Computer Information Systems at MSCD.

Certificate Programs

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

Network Specialist in Information Systems*

This certificate will prepare a student for an entry-level position in network support, network administration, network design, and network sales.

REQUIRED COURSES SEMESTER HOURS		
CIS	3220	Analysis of Hardware, Software and User Interfaces
		for Microcomputer Platforms
CIS	3230	Telecommunication Systems and Networking
CIS	3280	LAN and WAN Systems for Business
CIS	3290	Operating Systems for End Users
CIS	4280	Network Installation and Administration

^{*}This certificate has prerequisite courses of CIS 2010 and CIS 2110 which may be waived with appropriate work experience or course work.

Programmer/Analyst in Information Systems*

This certificate will prepare a student for an entry-level position as a business application programmer, programmer/analyst, or junior systems analyst.

REQU	REQUIRED COURSES		
CIS	3050	Fundamentals of Systems Analysis and Design	
	-or-		
CIS	4050	Systems Analysis and Design**	
CIS	3060	Database Management Systems	
Three courses from the following:			
CIS	3030	Business Web Page Development	
CIS	3130	Business Applications in C and UNIX	
CIS	3145	Business Application Development with Visual Basic	
CIS	3180	Business Applications in OOP: C++	
CIS	3190	Business Application and Web Applet Design with Java	
CIS	3260	Information Systems Development with GUI Development Tools	

^{*}This certificate has prerequisite courses of CIS 2010 and CIS 2110 which may be waived with appropriate work experience or course work.

Database Analyst*

This certificate will prepare a student for an entry-level position as a database programmer or database analyst.

REQ	REQUIRED COURSES		
CIS	2110	Structured Problem Solving in Information Systems	
Any one o	ourse fro	om the CIS Programming Language Group:	
,			
CIS	3130	Business Applications in C and UNIX	
CIS	3145	Business Application Development with Visual Basic	
CIS	3180	Business Applications in OOP: C++	
CIS	3190	Business Application and Web Applet Design with Java	
CIS	3260	Information Systems Development with GUI Development Tools	
	-plus-		
CIS	3060	Database Management Systems	
CIS	4060	Advanced Database Management Systems	
CIS	4260	Database Administration	

^{*}This certificate has a prerequisite course of CIS 2010 which may be waived with appropriate work experience or course work.

End User Support Specialist*

This certificate will prepare a student for an entry-level position as a help desk/support center specialist. It will also prepare an end-user to become the departmental hardware/software expert.

REQUIRED COURSESSEMESTER HOU		
CIS	2110	Structured Problem Solving in Information Systems
CIS	3030	Business Web Page Development
CIS	3220	Analysis of Hardware, Software and User Interfaces
		for Microcomputer Platforms
CIS	3270	Advanced Computer Applications for Business
CIS	3290	Operating Systems for End Users

^{*}This certificate has a prerequisite course of CIS 2010 which may be waived with appropriate work experience or course work.

^{**}CIS 4050 has a prerequisite course of CIS 3230.

Web Developer in Information Systems*

This certificate will prepare a student to design and develop Web pages, to use an appropriate scripting language to generate dynamic Web content, to integrate Web solutions into the organization's information system, and to design and perform Web site administration tasks.

REQU	JIRED C	OURSESSEMESTER HOUR	S
CIS	3030	Business Web Page Development	3
CIS	3060	Database Management Systems	3
CIS	3145	Business Application Development with Visual Basic	3
	-or-		
CIS	3190	Business Application and Web Applet Design with Java	3
CIS	3230	Telecommunication Systems and Networking	3
CIS	4030	Web Site Administration	3

ECONOMICS DEGREE PROGRAM

MSCD's economics program is not a business program and economics majors do not have the same requirements as other majors in the School of Business. For example, economics majors do not need to take the business core nor the special General Studies required of business majors. Graduates will receive a bachelors of arts degree instead of a bachelors of science degree. Consequently, the economics major requirements are not described in this section but can be found on page 102 of this Catalog.

FINANCE DEGREE PROGRAM

The finance program prepares students for careers that concentrate on the process of managing the funds of individuals, businesses, and governments. Career opportunities are available in the fields of managerial finance, personal financial planning, and the financial services industry. The field of managerial 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 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 Statement:

The Finance Department of the School of Business at Metropolitan State College 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.

^{*}This certificate has prerequisite courses of CIS 2010 and CIS 2110 which may be waived with appropriate work experience or course work.

Finance Major for Bachelors of Science

All candidates for a bachelors of science degree in Finance must satisfy the General Studies requirements, the business core course requirements, the School of Business requirements and the major requirements described in the following sections. The basic structure of the Finance program is:

REQUIRED COURSES	SEMESTER HOURS
General Studies (Level I and Level II)	34
Business Core	33
School of Business requirements	9
Major in Finance	24
Unrestricted Electives*	20
Total Hours (minimum)	

^{*}The College's multicultural requirement may be satisfied by taking an approved multicultural course in general studies or electives portion of the degree requirement.

NOTE: Unrestricted Elective credits may vary. Total unrestricted electives must be sufficient for student to meet the College's minimum required 120 credit hours.

General Studies

The academic foundation for a successful business career or graduate work is a broad liberal arts educa-

GENERAL STUDIES REQUIRED BY THE SCHOOL OF BUSINESS SEMESTER HOURS General Studies Level I Composition ENG 1010 ENG 1020 Mathematics MTH 1310* Finite Mathematics for the Management and Social Sciences...... 4 Communications SPE 1010 *Note: MTH 1110 or MTH 1400, with graphing calculator experience strongly recommended, is acceptable for transfer students or students changing their major. Consult with the Mathematical and Computer Sciences Department on substitutions. **General Studies Level II Historical Studies** HIS Arts and Letters PHI 1030 -or-PHI 3360 Level II Arts and Letters elective (refer to Catalog Addendum: General College Requirements). . . . 3 Social Sciences 1001* -or-SOC 1010 PSC 1010 -or-PSC 1020 **Natural Sciences** Level II Natural Sciences electives (refer to Catalog Addendum: General College Requirements) . . 6

* Note: PSY 8000 is acceptable for transfer students.

Business Core

All business majors require foundation course work in all significant areas of business theory and practice. The following courses are required for all majors in finance. A grade of "C" or better must be earned in each business core course to have that course count toward the bachelors of science degree in finance.

	REQUIRED COURSESSEMESTER HOURS		
	ACC	2010	Principles of Accounting I
	CIS	2010	Computer Applications for Business
	ACC	2020	Principles of Accounting II
	MKT	2040	Business Communication
	MGT	2210	Legal Environment of Business I
	CIS	2300	Business Statistics
	MGT	3000	Organizational Management
	MKT	3000	Principles of Marketing
	FIN	3300	Managerial Finance
	CIS	3340	Advanced Business Statistics
	MGT		Strategic Management (Senior Experience Course)
	Total I	Hours Re	equired in Business Core
School of Business Requirements			
	REQU	IRED C	OURSESSEMESTER HOURS
	MTH	1320	Calculus for the Management and Social Sciences
	ECO	2010	Principles of Economics-Macro
		2020	Principles of Economics-Micro
	Total I	Hours for	r School of Business Requirement

Finance Major Requirements

Finance majors must pursue a concentration depending on their interest within the Finance area. A minimum grade of "C" is required for courses in the major.

Finance Common Core

REQUIRED COURSES				
FIN	3010	Financial Markets and Institutions		
FIN	3150	Personal Financial Planning		
FIN	3600	Investments		
FIN	3850	Intermediate Finance		
Subtotal				

General Finance Concentration

REQUIRED COURSES	SEMESTER HOURS
Finance Common Core	
FIN 4950 Financial Strategies and Policies	
Subtotal	
Approved Electives*	9
Total Hours Required for Finance Major with a General Finance Concent	tration24

^{*}Upper-division finance electives (three credit hours must be 4000-level) selected in consultation with and approved by the Finance Department.

Financial Services Concentration

REQUIRED COURSES	SEMESTER HOURS
Finance Common Core	
FIN 4600 Security Analysis and Portfolio Management	
Subtotal	
Approved Electives*	9
Total Hours Required for Finance Major with a Financial Services Concentration	1

*Upper-division finance electives (three credit hours must be 4000-level) selected in consultation with and approved by the Finance Department.

To earn a bachelor's degree in Finance, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250. A student must complete at least eight (8) upper-division semester hours in Finance at MSCD.

Certificate Programs

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

Personal Financial Planning

REQUIRED COURSES				
ACC 30	090	Income Tax I		
FIN 3	150	Personal Financial Planning		
FIN 34	420	Principles of Insurance		
FIN 34	450	Retirement Planning and Employee Benefits		
FIN 36	600	Investments		
FIN 44	400	Estate Planning		

Successful completion of these courses also meets the Certified Financial Planner (CFP*) Board of Standards education requirement to take the national Certified Financial Planner examination. For prerequisites and more information call the Finance Department, 303-556-3776.

Noncredit Financial Planning

- FPI Financial Planning Fundamentals
- FPII Understanding Risk and Insurance
- FPIII Investment Alternatives
- FPIV Effective Tax Planning
- FPV Retirement Planning and Employee Benefits
- FPVI Estate Planning

Approved by Certified Financial Planner (CFP*) Board of Standards/Approved by Colorado Insurance Commission for Continuing Education credit. For prerequisites and more information call the Finance Department, 303-556-6998 or 303-556-3776.

MANAGEMENT DEGREE PROGRAM

The management program prepares students to pursue a career in human resource management, operations management, entrepreneurship, or general management. Effective managers are necessary for organizations to compete in today's global economy. The program consists of required courses that build a conceptual foundation for identifying and solving managerial problems. In addition to acquir-

ing knowledge about business and management, students will develop special skills that are necessary to be an effective manager.

The commitment of the Department of Management is voiced in its mission statement:

Our mission is to provide our diverse body of students with a high quality management and business law education. We believe that teaching and learning in a context of inquisitive, mutually respectful interaction between faculty and students is essential. Through such facilitated interaction, students develop the knowledge and skills necessary for the process of professional management in a competitive world.

We will direct our individual and joint research efforts in relevant areas of applications of management/legal theory, instructional techniques, and the continuous improvement of course content. The faculty recognizes the importance of providing service to our stakeholders.

Necessary skills the manager should have include:

- proficiency in planning, organizing, leading and controlling activities;
- · utilization of problem solving methodology to identify and define organizational problems, devise solutions, and implement the solution to achieve desired outcomes;
- highly developed interpersonal skills;
- an ability to communicate clearly and persuasively;
- use of sound methods for making decisions;
- innovative thinking, self-reliance, creative independent analysis, and sensitivity to social and ethical values.

Students majoring in management and interested in pursuing an International Business concentration should see an advisor.

Management Major for Bachelors of Science

All candidates for a Bachelors of Science degree in Management must satisfy the General Studies requirements, the business core course requirements, the School of Business requirements and the major requirements described in the following sections. The basic structure of the Management program is:

REQUIRED COURSESSEMESTEI	R HOURS
General Studies (Level I and Level II)	34
Business Core	33
School of Business requirements	9
Major in Management	24
Unrestricted Electives*	20
Total Hours (minimum)	120

^{*}The College's multicultural requirement may be satisfied by taking an approved multicultural course in general studies or electives portion of the degree requirement. The School of Business does offer one of these courses, MGT 4830 Workforce Diversity.

NOTE: Unrestricted Elective credits may vary. Total unrestricted electives must be sufficient for student to meet the College's minimum required 120 credit hours.

General Studies

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

GENERAL STUDIES REQUIRED BY THE SCHOOL OF BUSINESS SEMESTER HOURS

General Studies Level I

Composition

ENG	1010	Freshman Composition: The Essay	3
ENG	1020	Freshman Composition: Analysis, Research, and Documentation	3

	Mathe	matics	
	MTH	1310*	Finite Mathematics for the Management and Social Sciences
		nunicati	ions
	SPE	1010	Public Speaking
	accepta	able for t	1110 or MTH 1400, with graphing calculator experience strongly recommended, is transfer students or students changing their major. Consult with the Mathematical and inces Department on substitutions.
Gen	eral Stu	ıdies Le	evel II
	Histor	ical Stu	dies
	HIS		(American history course recommended)
	Arts a	nd Lette	ers
	PHI	1030	Ethics
		-or-	
	PHI	3360	Business Ethics
			nd Letters elective (refer to Catalog Addendum: General College Requirements) 3
		Science	
	PSY	1001	Introductory Psychology
	SOC	-or- 1010	Introduction to Sociology
	PSC	1010	American National Government
	100	-or-	Timerean random dovernment
	PSC	1020	Political Systems and Ideas
	Natura	al Scien	ces
			al Sciences electives (refer to Catalog Addendum: General College Requirements) . 6
	Total o	f Requir	ed and Elective General Studies34
All b	usiness		require foundation course work in all significant areas of business theory and practice.
			ses are required for all majors in management. A grade of "C" or better must be earned in ourse to have that course count toward the Bachelors of Science degree in management.
	REOU	IRED CO	OURSESSEMESTER HOURS
	ACC	2010	Principles of Accounting I
	CIS	2010	Computer Applications for Business
	ACC	2020	Principles of Accounting II
	MKT	2040	Business Communication
	MGT	2210	Legal Environment of Business I
	CIS	2300	Business Statistics
	MGT		Organizational Management
	MKT		Principles of Marketing
	FIN	3300	Managerial Finance
	CIS MGT	3340	Advanced Business Statistics
			equired in Business Core
	1011111	10 <i>u</i> 13 Ke	quirea in Dusiness Core
Sch	ool o	of Bu	siness Requirements
	REOU	IRED CO	OURSESSEMESTER HOURS
	MTH		Calculus for the Management and Social Sciences
	ECO	2010	Principles of Economics-Macro
	ECO	2020	Principles of Economics-Micro
	Total L	Janua far	y School of Pagings Paganinament

Management Major Requirements

REQUIRED COURSES	
MGT 3020 Fundamentals of Entrepreneurship	3
MGT 3220 Legal Environment of Business II	3
MGT 3530 Human Resources Management	3
MGT 3550 Manufacturing and Service Management	3
MGT 3820 International Business	3
MGT 4530 Organizational Behavior	
Subtotal	
Plus 6 hours from the following courses:	
MGT 3210 Commercial and Corporate Law	
MGT 4000 Management Decision Analysis	3
MGT 4020 Entrepreneurial Creativity	3
MGT 4050 Purchasing and Contract Management	3
MGT 4420 Entrepreneurial Business Planning	3
MGT 4550 Project Management	3
MGT 4610 Labor/Employee Relations	3
MGT 4620 Appraisal and Compensation	3
MGT 4640 Employee Training and Development	3
MGT 4650 Managing Productivity	3
MGT 4830 Workforce Diversity	
Total Elective Hours	
Total Hours Required for Management Major	

To earn a bachelor's degree in Management, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT, and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250. A student must complete at least eight (8) upper-division semester hours in Management at MSCD.

MARKETING DEGREE PROGRAM

The Marketing program prepares students for career opportunities in such dynamic areas as sales management, distribution, advertising, marketing research, retailing, and marketing management.

Mission Statement:

Students—Strive to give our students a first rate education in marketing and business communication (that compares favorably to other business programs in the U.S.). To enhance their respect for and excitement for learning that is consistent with the objectives of the School of Business and Metropolitan State College of Denver.

Research/Publication—Maintain a research/publication record that is consistent with curricular needs, technological advancements and meets the challenges of globalization while allowing us to contribute to the knowledge-base of our discipline.

Service—Actively participate in various School of Business and MSCD committee activities, regional and national professional organizations and provide our services and expertise to the Denver and regional business community.

In addition to the department's well-rounded selection of courses, the curriculum offers students a combination of conceptual and applied learning experiences. Through the development of marketing plans, advertising campaigns and marketing research studies, students have the opportunity to work with Denver-area businesses on current marketing issues and problems. Students are also exposed to a variety of marketing speakers from the business community. Internship positions are available for marketing students through the Cooperative Education Office.

Marketing careers are challenging and rewarding in a field requiring an in-depth knowledge of products, services and modern information technology. Marketing is a people-oriented profession encompassing both for-profit companies and non-profit organizations. Since today's competition is creating a greater demand for marketing and promotional efforts, the growth rate of the field is expected to increase in the future. People who are successful in marketing are creative, highly motivated, flexible, and decisive. They also possess the ability to communicate persuasively both in speaking and writing.

Students majoring in marketing and interested in pursuing an International Business concentration should see an advisor.

Marketing Major for Bachelors of Science

All candidates for a Bachelor of Science degree in Marketing must satisfy the General Studies requirements, the business core course requirements, the School of Business requirements, and the Marketing major requirements described in the following sections. The basic structure of the Marketing program is:

REQUIRED COURSES	. SEMESTER HOURS
General Studies (Level I and Level II)	34
Business Core	33
School of Business requirements	9
Major in Marketing	24
Unrestricted Electives*	20
Total Hours (minimum)	120

^{*}The College's multicultural requirement may be satisfied by taking an approved multicultural course in general studies or electives portion of the degree requirement.

NOTE: Unrestricted Elective credits may vary. Total unrestricted electives must be sufficient for student to meet the College's minimum required 120 credit hours.

General Studies

The academic foundation for a successful business career or graduate	te work is a broad liberal arts education.
GENERAL STUDIES REQUIRED BY THE SCHOOL OF BUSINESS.	SEMESTER HOURS

General Studies Level I Composition

ENG	1010	Freshman Composition: The Essay
ENG	1020	Freshman Composition: Analysis, Research, and Documentation
Mathe	ematics	
MTH	1310*	Finite Mathematics for the Management and Social Sciences
Comn	nunicati	ions
SPE	1010	Public Speaking

^{*}Note: MTH 1110 or MTH 1400, with graphing calculator experience strongly recommended, is acceptable for transfer students or students changing their major. Consult with the Mathematical and Computer Sciences Department on substitutions.

General Studies Level II

Histo	rical Stu	ndies
HIS		(American history course recommended)
Artsa	and Lett	ers
PHI	1030	Ethics
	-or-	
PHI	3360	Business Ethics
Level	II Arts a	nd Letters elective (refer to Catalog Addendum: General College Requirements) 3

	Social	Science	es
	PSY	1001*	Introductory Psychology
		-or-	
		1010	Introduction to Sociology
	PSC	1010	American National Government
	D0.0	-or-	D. 11. 10
	PSC	1020 al Scien	Political Systems and Ideas
			al Sciences electives (refer to Catalog Addendum: General College Requirements) 6
			red and Elective General Studies
			100 is acceptable for transfer students.
	1,070	. 1 0 1 0 0	
Bus	sines	s Coı	re
A 11 1			
			s require foundation course work in all significant areas of business theory and prac-
			g courses are required for all majors in marketing. A grade of "C" or better must be siness core course to have that course count toward the bachelors of science degree in
	eting.	acii bus	siliess core course to have that course count toward the bachelors of science degree in
	_		
	-		OURSESSEMESTER HOURS
	ACC	2010	Principles of Accounting I
	CIS	2010	Computer Applications for Business
	ACC		Principles of Accounting II
	MKT		Business Communication
	MGT		Legal Environment of Business I
	CIS	2300	Business Statistics. 3 Organizational Management 3
	MGT MKT	3000	Principles of Marketing
	FIN	3300	Managerial Finance
	CIS	3340	Advanced Business Statistics. 3
	MGT		Strategic Management
	Total 1	Hours Re	equired in Business Core
Sch	ool	of Bu	siness Requirements
			1 · · · · · · · · · · · · · · · · · · ·
	REQU	IRED C	OURSESSEMESTER HOURS
	MTH		Calculus for the Management and Social Sciences
		2010	Principles of Economics-Macro
	ECO	2020	Principles of Economics-Micro
	Total I	Hours fo	r School of Business Requirement
3.5			
Ma	rketi	ing M	lajor Requirements
	REQU	IRED C	OURSESSEMESTER HOURS
	MKT	3010	Marketing Research
	MKT	3310	Consumer Behavior
	MKT	3710	International Marketing
	MKT	4560	Marketing Strategy

To earn a bachelor's degree in Marketing, a student must successfully complete 30 or more credit hours of business course work at MSCD. This 30-hour residency requirement can be met by completing any business courses with the prefix ACC, CIS, FIN, MGT, and MKT except CIS 1010, CIS 2300, CIS 3300, CIS 3320, CIS 3340, and FIN 2250. A student must complete at least eight (8) upper-division semester hours in Marketing at MSCD.

Total Hours Required for Marketing Major......24

INTERNATIONAL BUSINESS CONCENTRATION FOR BUSINESS MAJORS ONLY

Students majoring in accounting, computer information systems, finance, management, or marketing may elect to complete an International Business Concentration (IBC). The concentration provides students the opportunity to expand their knowledge of the rapidly changing global business, legal and cultural environment. Graduates with an IBC increase their career choices and will be better prepared to help area businesses compete in an increasingly international market place.

In addition to the major degree program requirements, the concentration includes 18-22 hours in international courses: a 12 hour core and six hours of approved international electives. Some students pursuing an IBC may need more than 120 semester hours of credit to graduate. Interested students should seek an advisor in their major department or dean's office as early in their degree program as possible. Each department has a semester-by-semester planning guide available to assist students in course choices and sequencing.

International Business Concentration

REQUIRED C	CORE SEMESTER HOURS
ECO 3550	Global Economics and International Trade
FIN 3100	International Money and Finance*
MGT 3820	International Business
MKT 3710	International Marketing
Total Require	d course hours
Plus 6 hours	from the following courses:
COURSES	
ANT 1310	Introduction to Cultural Anthropology
ANT 2330	Cross-Cultural Communication ¹
ANT 3300	Exploring World Cultures: Variable Topics ²
ECO 4450	International Macroeconomics
GEG 1000	World Regional Geography
HIS 2010	Contemporary World History
HIS 3350	Countries/Regions of the World: Variable Topics
PSC 3030	Introduction to International Relations
PSC 3320	International Law ³
PSC 3600	Comparative Politics Area Studies
Internship/Di	rected Study ⁴
Total semester	r hours
-or-	
One full acade	emic year of study of any one foreign language ⁵
Total credit ho	purs

^{*}The Finance Department recommends that students take this course after they have completed ECO 3550 and MGT 3820.

¹fulfills the multicultural requirement

²prerequisite: ANT 1310

³prerequisite: PSC 3030

⁴three hours maximum and must have significant academic/directed study component and meet all approved School of Business guidelines for internships.

⁵Foreign language competency gained through other than college credit will be assessed by the Brigham Young University Competency and Placement Examination (CAPE). Contact the Assessment and Testing Center for further details, 303-556-3677.

ECONOMICS DEGREE PROGRAM

Bachelors of Arts

The Department of Economics is a non-business degree program housed in the School of Business offering a traditional bachelors of arts degree. Economics is the scientific study of the allocation of scarce or limited resources among competing uses. The study of economics provides specialized and general knowledge of the operation of economic systems and institutions. The bachelors of arts degree program gives students a fundamental knowledge of domestic and foreign economies and the quantitative tools necessary for independent analytical research and thought. Specialized courses develop the student's ability to apply the tools of economic theory and analysis to a broad range of social, political, and economic issues. Such training is essential for graduates who wish to qualify for positions as professional economists and provides an excellent background for students interested in law school or graduate programs in economics, finance, or business.

Our mission statement reflects our commitment.

The Department of Economics at the Metropolitan State College of Denver delivers a high-quality, accessible bachelors of arts program in economics while also providing significant service to the College, the School of Business, and the community by providing accessible and quality general studies courses in the principles of microeconomics and macroeconomics. We prepare students for lifelong learning in a complex free civil society; for graduate or professional education in economics, business and legal studies or the law; and for careers in a broad range of private and public activities.

The Department of Economics pursues excellence in teaching and learning as its primary purpose. The faculty of the department engages in scholarly activity that contributes to the literature in applied and basic economic research and other professional activity that enhances quality instruction.

While most positions as a professional economist require graduate training, for someone with a bachelor's degree employment opportunities are available in national and international business; federal, state and local government; and various nonprofit organizations. In the field of economics, the following competencies are useful:

- · ability to examine, analyze, and interpret data;
- · sound decision-making abilities;
- proficiency in oral and written communications;
- · knowledge of economic theory, history, practices, and trends;
- ability to operate and use information derived from computers;
- · knowledge of statistical procedures;
- interest in economic and political trends.

Economics Major for Bachelors of Arts

REQU	IRED C	OURSES	. SE	MF	ST	EF	₹H	O	U]	RS
ECO	2010	Principle of Economics–Macro								3
ECO	2020	Principle of Economics–Micro								3
ECO	3010	Intermediate Microeconomic Theory								3
ECO	3020	Intermediate Macroeconomic Theory								3
ECO	3150	Econometrics								3
ECO	4600	History of Economic Thought (Senior Experience)								3
Subtot	al									18
Appro	ved Ele	ctives (upper division economics courses)								18
Total 1	Hours of	Economics required for Economics Major								36

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Additional red	quirements:
MTH 1320	Calculus for the Management and Social Sciences
-or-	
MTH 1410*	Calculus I
*(recommende	ed for students interested in graduate work in economics)
Subtotal	39-40
	or (minimum)
General Studi	es (minimum)
Multicultural	requirement*
Electives**	
Total Hours R	equired for Bachelors of Arts in Economics

^{**}Check with an advisor in the Department of Economics regarding electives and the multicultural requirement.

Economics with Secondary Social Studies Licensure:

In addition to the required Social Science core the Economics major includes advanced courses in Economics, Econometrics, and History of Economic Thought.

MTH 1310	COURSES
General Stuan	es Total
	censure Requirement for Secondary Social Sciences
HIS 4010	Methods of Teaching Social Sciences
Economics Co	ore:
COURSES	
ECO 2010	Principles of Economics-Macro
ECO 2020	Principles of Economics-Micro
ECO 3010	Intermediate Microeconomic Theory
ECO 3020	Intermediate Macroeconomic Theory
ECO 3150	Econometrics
ECO 4600	History of Economic Thought (Senior Experience)
MTH 1320	Calculus for the Management and Social Sciences
-or-	
MTH 1410	Calculus
Economics Co	re Total
Electives: (12	upper division Economics courses)
	COURSESSEMESTER HOURS
ECO 3200	Economic History of the U.S
ECO xxxx	
ECO xxxx	
ECO xxxx	Selected in consultation with an advisor
Electives Total	required12
*Note: The sta	andard Economics major requires 18 hours of electives. GEG 3000 and PSC 3030, which
are required fo	or Secondary Social Studies, will be accepted towards the major replacing two Economics
electives.	
Additional Co	ourse Requirements for Secondary Social Studies
History:	000000000000000000000000000000000000000
	OURSESSEMESTER HOURS
HIS 1010	Western Civilization to 1715 or 1603
-or-	
HIS 1030	World History to 1500

HIS	1210	American History to 1865
HIS	1220	American History since 1865
HIS	1040	World History since 1500
Histor	y Total .	
Politic	al Scienc	ce:
REQU	TRED CO	DURSES SEMESTER HOURS
PSC	1010	American National Government
PSC	1020	Political Systems and Ideas
PSC	3030	Introduction to International Relations (major elective)
Politic	al Scienc	e Total
Geogr	aphy:	
REQU	TRED CO	DURSES SEMESTER HOURS
GEG	1920	Concepts and Connections in Geography
GEG	3000	Historical Geography of the U.S.(major elective)
Geogr	aphy Tota	al
Behav	ioral Sci	ences:
REQU	TRED CO	DURSES SEMESTER HOURS
ANT	1310	Introduction to Cultural Anthropology
		ence Total
Addit	ional Req	uired Courses Total30
Major	total	
Gener	al Studie.	s Total (pages 331-332)
Licens	ure Total	(page 332) (Includes HIS 4010)

Minors in the School of Business

The School of Business offers nine minors in business and economics. Most minors require 18 credit hours plus prerequisites, if any. These minors (with the exception of economics) are designed primarily for non-business majors. A student may not take more than 30 credit hours in the School of Business without declaring a business major. The acceptance of transfer credits will be governed by standards and policies of the School of Business and its departments.

Students should choose a minor that will help them in their chosen career. The general business minor should be declared after consultation with the associate dean. Other minors should be declared with the help of a faculty advisor or department chair of the appropriate department.

Accounting Minor

The accounting minor offers students a broad-based education in accounting, emphasizing a particular field within this discipline, such as financial accounting, managerial accounting, tax accounting, or governmental accounting.

The Accounting Department requires 60 credit hours (junior standing) before taking upper-division accounting courses. At least 12 hours of accounting courses in the minor must be completed in residency at MSCD.

REQU	TRED C	OURSESSEMESTER HOURS
ACC	2010	Principles of Accounting I
ACC	2020	Principles of Accounting II
ACC	3090	Income Tax I
ACC	3510	Intermediate Accounting I
Appro	ved Ele	ctives*
Total 1	Hours R	equired for Accounting Minor18

^{*}A student may select any courses in the accounting program or curriculum provided they are approved by the Accounting Department advisor.

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Computer Information Systems Minor

This minor will provide a basic understanding of the concepts, current methodology, and rapid changes in the design, development, and use of computer-oriented systems for businesses and organizations.

REQU	JIRED C	OURSESSEMESTER HOURS
CIS	2010	Computer Applications for Business
CIS	2110	Structured Problem Solving in Information Systems
CIS	3060	Database Management Systems
CIS U	pper Di	vision Electives*
Total Hours Required for Computer Information Systems Minor		

^{*}Electives are selected in consultation with and approved by a Computer Information Systems Department advisor.

Economics Minor

The economics minor provides students with an opportunity to acquire a general knowledge of the operation of economic systems and institutions, as well as the quantitative tools necessary for analytical research and thought.

REQU	TRED C	OURSESSEMESTER HOURS
ECO	2010	Principles of Economics–Macro
ECO	2020	Principles of Economics–Micro
Approved Electives *		
Total 1	Hours Re	equired for Economics Minor

^{*}Approved electives are upper-division economics courses selected in consultation with and approved by the Economics Department.

General Finance Minor

This minor offers a broad-based education in general finance. A particular field may be emphasized within this discipline, such as investments, managerial finance, financial institutions, or international finance. A student desiring a strong emphasis should also consider the financial services minor.

For the general finance minor, the student must have completed ACC 2010 (or the equivalent) and ECO 2010 and ECO 2020, which may be applied to the student's General Studies or elective requirements as applicable. The Finance Department requires 60 credit hours (junior standing) prior to taking upper-division finance courses. A minimum grade of "C" is required in all finance minor courses. At least 12 hours of finance courses must be completed in residency at MSCD to satisfy the requirements of the minor.

REQU	TRED C	OURSESSEMESTER HOURS
FIN	3010	Financial Markets and Institutions
FIN	3300	Managerial Finance
FIN	3600	Investments
Approved Electives*		
Total Hours Required for General Finance Minor		

^{*}A student may select any courses in the finance program or curriculum provided they are approved by a Finance Department advisor.

Financial Services Minor

This minor offers a focused education in the financial services area emphasizing a particular field within this discipline, such as personal financial planning, investments, and financial institutions.

The Finance Department requires 60 credit hours (junior standing) prior to taking upper-division finance courses. A minimum grade of "C" is required in all finance minor courses. At least 12 hours of finance courses must be completed in residency at MSCD to satisfy the requirements of the minor.

REQU	IRED CO	OURSESSEMESTER HOURS
ACC	2010	Principles of Accounting I
FIN	2250	Personal Money Management
	-or-	
FIN	3150	Personal Financial Planning
FIN	3450	Retirement Planning and Employee Benefits
Upper	-divisio	n electives*
Total I	Hours Re	quired for Financial Services Minor
Sugges	sted Fina	ance Electives for Minors:
FIN	3010	Financial Markets and Institutions
FIN	3320	Entrepreneurial Finance
FIN	3420	Principles of Insurance
FIN	3600	Investments**
FIN	3800	Real Estate Practice and Law
FIN	4400	Estate Planning
FIN	4600	Security Analysis and Portfolio Management**
MKT	3000	Principles of Marketing
*Stude	ents shou	ld select three (3) elective courses in consultation with their Finance Department advi-
sor.		

General Business Minor

Students minoring in general business must take ECO 2010, ECO 2020, and MTH 1310. These hours may be part of the student's General Studies requirements. In addition to the required 24 credit hours below, students may take up to 6 additional credit hours within a specific business discipline for a total not to exceed 30 credit hours within the School of Business. If a student wishes to enroll in business courses beyond 30 hours, the student must declare a major with the School of Business.

Prerequisites credits may be applied to General Studies

REQUIRED C	OURSESSEMESTER HOURS
ECO 2010	Principles of Economics–Macro
ECO 2020	Principles of Economics–Micro
MTH 1310	Finite Mathematics for the Management and Social Sciences
MTH 1320	Calculus for the Management and Social Sciences
COURSES	
ACC 2010	Principles of Accounting I
ACC 2020	Principles of Accounting II
CIS 2010	Principles of Information Systems
CIS 2300	Business Statistics
FIN 3300	Managerial Finance
MGT 2210	Legal Environment of Business I
MGT 3000	Organizational Management
MKT 3000	Principles of Marketing
	al Hours Required for General Business Minor
(not to exceed	<i>30 credit hours)</i>

^{**}FIN 3600 has a prerequisite of FIN 3300; FIN 4600 has FIN 3600 as a prerequisite.

International Business Minor

This minor is intended for non-business majors so that they may add some study in business from an international perspective to their degree programs. Contact the School of Business Dean's Office for obtaining an advisor.

REQUIRED C	OURSES SEMESTER HOURS
ACC 2010	Principles of Accounting I
ECO 2010	Principles of Economics–Macro*
ECO 2020	Principles of Economics–Micro*
MGT 3820	International Business
Subtotal	
* This course h	as been approved for General Studies, Level II, Social Sciences credit.
Choose at leas	t 6 hours from:
FIN 3010	Financial Markets and Institutions
MGT 3000	Organizational Management
MKT 3000	Principles of Marketing**
Subtotal	6
Choose at leas	t 6 hours from:
ECO 3550	Global Economics and International Trade
FIN 3100	International Money and Finance
MKT 3710	International Marketing*
Subtotal	6
Total Hours Re	equired for International Business Minor24
	as been approved for General Studies, Level II, Social Science credit.
** MKT 3000	is a prerequisite for MKT 3710.

Management Minor

The management minor prepares individuals for the important tasks of supervising others, working in teams, and taking on additional responsibilities in their field of interest.

REQUIRED C	COURSESSEMESTER HOURS
MGT 3000	Organizational Management 3
MGT 3530	Human Resources Management
MGT 3550	Manufacturing and Service Management
MGT 3820	International Business
MGT 4530	Organizational Behavior
Choose 3 hou	ırs from:
MGT 2210	Legal Environment of Business I
MGT 2500	Small Business Management
MGT 3020	Fundamentals of Entrepreneurship
MGT 4000	Management Decision Analysis
MGT 4610	Labor/Employee Relations
MGT 4620	Appraisal and Compensation
MGT 4640	Employee Training Development
MGT 4830	Workforce Diversity*
Total Hours R	equired for Management Minor

^{*}This course has been approved as a Multicultural and Senior Experience course.

It is recommended that in order to achieve a broader understanding of business, non-business major students minoring in management should consider taking as a general elective MGT 1000 *Introduction to Business*.

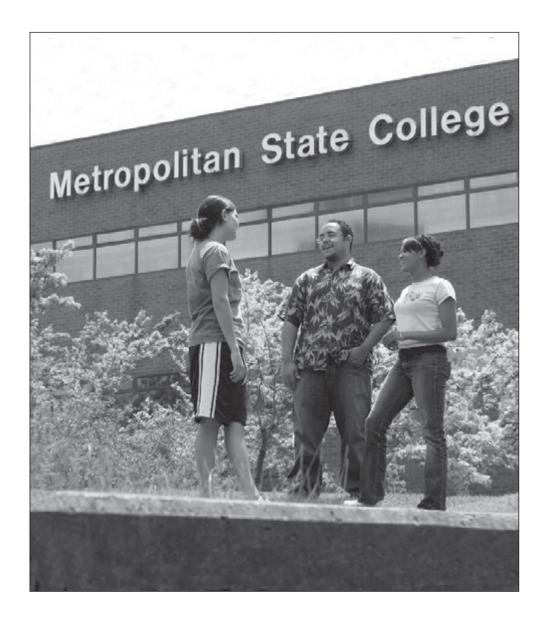
Marketing Minor

The Marketing minor provides students with the opportunity to develop an understanding of business and sufficient familiarity with marketing skills to work in a business environment.

REQUIF	RED CC	OURSESS	EM	ES	TI	ER	HC)U	RS
MKT 2	2040	Business Communication							. 3
MKT 3	3000	Principles of Marketing							. 3
MKT 3	3310	Consumer Behavior							. 3
MKT 4	1520	Seminar in Marketing Management							. 3
Approve	ed Elect	tives*							. 6
Total Ho	otal Hours Required for Marketing Minor								

 $^{{}^*\!}Approved\ electives\ are\ selected\ in\ consultation\ with\ and\ approved\ by\ a\ Marketing\ Department\ advisor.$







the School of Letters, Arts and Sciences

tradition and imagination Provides a high-quality, liberal arts education designed to meet the educational needs of the urban student.



The mission of the School of Letters, Arts and Sciences is to provide a 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.

The School of Letters, Arts and Sciences offers programs of study in humanities and in social, natural, and mathematical sciences. The programs prepare students for careers, graduate work, and lifelong learning.

The school offers more than 30 major and minor programs through 19 departments and 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 addition, they arrange internships and other applied educational experiences in state and local agencies, business, industry, and the media.

Through centers, the school 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 Mathematics, Science and Environmental 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.
- 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.

AFRICAN AND AFRICAN AMERICAN STUDIES DEPARTMENT

The African and African American Studies Department offers a range of courses in African and African American Studies that present the dimension of the black experience in this country and in Africa. These courses encompass and afford a comprehensive understanding of the African heritage. They present African links and potential; contributions of black people in the growth and development of the United States; black culture and lifestyles; the black community; political activity and potential; religious development and importance; community service and resource assistance; and prognosis and potential for social change. Some courses may apply in the General Studies requirements and as electives for graduation. Students seeking secondary education licensure with a social studies endorsement must satisfy the teacher education program of MSCD in addition to all of the major requirements.

The major in African American Studies, which leads to a bachelor of arts degree, and the minor program must be planned in consultation with the chair of the African and African American Studies Department. Before declaring African American Studies as a major, the student must consult with the African and African American Studies Department chair. Students seeking secondary education licensure must consult with an advisor in African and African American Studies and one in Secondary Education.

African American Studies Major for Bachelor of Arts

REQU	IRED C	OURSESSEMESTER HOU	JRS
-		Introduction to African American Studies	
		Survey of African History (HIS 1940)	
AAS	2000	Social Movements and the Black Experience (SOC 2000)	. 3
AAS	3300	The Black Community (SOC 3140)	3

AAS	3700	Psychology of Group Prejudice (CHS/PSY/WMS 3700)		
AAS	4850	Research Seminar in African American Studies		
Subto	tal			
Select	one from	n the following:		
AAS	3310	African Art (ARTH 3310)		
AAS	3330	Egyptian Art (ARTH 3330)		
AAS	3240	African American Literature (ENG 3240)		
<i>Subtotal</i>				
Electives*				
Total.	Total			

^{*}Elective hours in African and African American Studies courses are selected in consultation with the advisor.

African American Studies Major with Teacher Licensure, page 348

Minor in African American Studies

REQUIRED COURSES		
AAS 1010	Introduction to African American Studies	,
AAS 2000	Social Movements and the Black Experience (SOC 2000)	,
Total		í

Electives

A minimum of 15 additional semester hours is required in African American courses, 3 hours of which must be an African course, selected in consultation with and approved by the African and African American Studies advisor assigned to the student. Total hours for the minor are 21.

Assessment Test

During the final semester, students majoring in African American Studies will be required to take a comprehensive assessment test.

ANTHROPOLOGY PROGRAM

Department of Sociology, Anthropology and Behavioral Sciences

Anthropology is the exploration of human diversity. The combination of cultural, archaeological, and biological perspectives offer a viewpoint that is unique in studying the problems related to the survival and well-being of the human species. From the living and vanished cultures of Colorado to those of New Guinea or South America, anthropology can be applied to assist our understanding of human differences. Contact the Sociology, Anthropology and Behavioral Sciences Department for information.

Anthropology Major for Bachelor of Arts

REQUIRED C	REQUIRED COURSES		
ANT 1010	Physical Anthropology and Prehistory		
ANT 1310	Introduction to Cultural Anthropology		
ANT 2100	Human Evolution		
ANT 2330	Cross-Cultural Communication		
ANT 2640	Archaeology		
Subtotal			
Electives			
Total			

At least 12 upper-division semester hours in anthropology must be completed at MSCD by students majoring in the field.

Minor in Anthropology

The minor provides an opportunity for students to bring a unique anthropological perspective to their already chosen area of interest. Anyone having to deal with human or cultural differences would benefit from selecting a focus in cross-cultural contact, archaeology, or human diversity.

REQU	IRED CO	DURSES	SEN	1EST	ER	HC)UR	5
ANT	1010	Physical Anthropology and Prehistory					:	3
ANT	1310	Introduction to Cultural Anthropology					:	3
Subtot	al							6
Electiv	es						1	5
Total.							2	l

At least 6 upper-division semester hours must be completed at MSCD.

ART DEPARTMENT

The Art Department offers a full range of studio art courses in the concentrations of art education, ceramics, communication design, digital art, drawing, jewelry design and metalsmithing, painting, photography, printmaking, or sculpture leading to the Bachelor of Fine Arts in Art degree. The Bachelor of Arts in Art degree is offered with a concentration in art history, theory and criticism. Coursework leading to licensure in art education is available for those with an existing bachelor's degree. The Art Major is accredited by the National Association of Schools of Art and Design (NASAD).

GOALS

Undergraduate studies in art prepare students to function in a variety of artistic roles. In order to achieve these goals, instruction should prepare students to:

- · read the nonverbal language of art
- develop responses to visual phenomena and organize perceptions and conceptualizations both rationally and intuitively
- · become familiar with and develop competence in a number of art and design techniques
- become familiar with major achievements in the history of art, including the works and intentions
 of leading artists in the past and present
- · demonstrate the way art reflects cultural values
- · evaluate developments in the history of art
- · understand and evaluate contemporary thinking about art
- make valid assessments of quality in design projects and works of art

Note: Art students will be expected to purchase tools and supplies appropriate to the media in which they are working. In addition, all art courses have a program fee for consumable materials and/or modeling fees.

Art Major for Bachelor of Fine Arts

Studio Art Concentrations

Foundation Requirements

COURSES	
ARTH 1600	World Art I: Art before 1200
ARTH 1700	World Art II: Art since 1200
ART 1101	Two Dimensional Design
ART 1141	Drawing I
ART 1501	Three Dimensional Design

ART	1541	Drawing II
	-or-	
ART	1531	Introduction to Digital Art and Design
	-or-	
IND	1470	Perspective Drawing
(see b	elow for	the correct choice for your concentration)
Total	, Founda	tion Requirements
ındatio	on cours	ses are prerequisites for courses within the studio concentration. Check each of
criptio	n for sp	ecific prerequisites or corequisites.

Fou course descrip

Also required for all studio art majors:

COURSES	
ARTH 3080	Art of the 20th and 21st Centuries
ARTH 4480	Art Theory and Criticism
ART 2101	Color Theory and Practice
Total	9

A letter grade of "C" or better is required in each foundation course, each of the courses listed above, and each course specifically required for a concentration.

Students must choose one of the following areas of concentration: ceramics, communication design, digital art, drawing, jewelry design and metalsmithing, painting, photography, printmaking, or sculpture. (The art education concentration is listed separately.)

Please see the sections below for concentration-specific requirements.

Courses for the Concentration
Total for the Major
General Studies
Electives
Total for the Degree

A minimum of 33 upper-division art hours required, 40 upper-division hours total for the degree. A minor is optional for art majors.

ARTH 3300 may be taken for the multicultural requirement. It is required for some concentrations.

Ceramics Concentration

Ceramics students must take ART 1541 Drawing II as part of their foundation coursework.

The following courses are required for the concentration:

	COUR	RSES	
	ARTH	I 3XXX	Upper Division Art History Elective (see list p. 119)
	ART	2611	Ceramics I
	ART	2691	Sculpture I
	ART	3211	Ceramics II
	ART	3215	Mold Making for Ceramics
	ART	3291	Sculpture II
	ART	3611	Ceramics III
	ART	3615	Low Fire Ceramics
	ART	4211	Ceramics IV
	ART	4611	Ceramics V
	ART	4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit
			(Senior Experience)
	Total.		
	Choos	se 18 hou	urs art or art history electives
Ceramics students may apply IND 1470 Perspective Drawing to their art or art history electives			

Communication Design Concentration

Communication Design students must take ART 1531 Introduction to Digital Art and Design as a foundation course. Students must have a suitable laptop computer before proceeding with ART 3225 and subsequent courses. See advisor for specifications.

The following courses are required for the concentration:

COURSES					
ARTH 3690		History of Communication Design			
ARTH	3880	Understanding Visual Language			
ART	2222	Visual Thinking			
ART	2225	Typography I			
ART	2625	Typography II			
ART	2671	Photography I			
	-or-				
ART	3321	Illustration for Communication Designers			
ART	3222	Design Research Methods			
ART	3225	Typography III			
ART	3623	Identity and Systems Design			
ART	3625	Narrative Design			
ART	4225	Concepts in Motion			
ART	4625	Communication Design Internship			
ART	4721	Communication Design Senior Experience: Portfolio Development			
		(Senior Experience)			
Total					
Choose 12 hours art or art history electives					
	Some recommendations for electives include ART 3980 Cooperative Education Internship, ART 4222				
Dimensional Design, ART 4223 Community-Based Design, ART 4327 Illustration II, ART 4842					
	Directed Studies in Communication Design, and courses in photography, digital art, and printmaking.				
Total fo	or the C	oncentration51			

Digital Art Concentration

Digital Art students must take ART 1531 Introduction to Digital Art and Design as a foundation course.

The following courses are required for the concentration:

COURSES			
ARTH 3880	Understanding Visual Language		
ARTH 3XXX	Upper Division Art History Elective (see list p. 119)		
ART 2222	Visual Thinking		
ART 2237	Constructing the Digital Image		
ART 3235	Video Art		
ART 3631	Interactive Multimedia Art		
ART 3635	Web Art I		
ART 4235	Web Art II		
ART 4631	Digital Art Portfolio		
ART 4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit		
	(Senior Experience)		
Total	30		
Choose a sequ	uence of three courses from any other studio concentration		
Choose 12 ho	ours art or art history electives		
Recommende	ed: ART 3980 Cooperative Education Internship, ART 4601 Installation Art, ART		
4843 Directed	4843 Directed Studies in Digital Art.		
Total for the (Concentration		

CEMECTED HOLDS

Drawing Concentration

COLIDEES

Drawing students must take ART 1541 Drawing II as a foundation course.

The following courses are required for the concentration: COURSES ART 3241 Choose 9 hours from: ART 3644 ART 4241 ART 4244 ART 4641 -Plus-Senior Experience Studio: Portfolio Development and Thesis Exhibit ART 4701

Jewelry Design and Metalsmithing Concentration

Jewelry Design and Metalsmithing students may take IND 1470 Perspective Drawing or ART 1541 Drawing II as part of their foundation coursework.

The following courses are required for the concentration:

COURSES		RSES	SEMESTER HOURS
ARTH 3XXX		3XXX	Upper Division Art History Elective (see list p. 119)
	ART	2651	Jewelry Design and Metalsmithing I
	ART	2691	Sculpture I
	ART	3251	Jewelry Design and Metalsmithing II
	ART	3293	Functional Sculpture
	ART	3651	Jewelry Design and Metalsmithing III
	ART	4251	Jewelry Design and Metalsmithing IV
	ART	4651	Jewelry Design and Metalsmithing V
	ART	3653	Casting for Jewelers and Metalsmiths
		-or-	
	ART	3655	Enameling for Jewelers and Metalsmiths
		-or-	
	ART	3657	Textile Techniques in Metal
		-or-	
	ART	4845	Directed Studies in Jewelry Design and Metalsmithing
	ART	4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit
			(Senior Experience)
	Total.		
	Choos	se 6 hou	rs from:
	ART	2611	Ceramics I
	ART	3291	Sculpture II
	ART	3295	Glassworking
	ART	3501	Mixed Media Exploration I
	IND	1200	Introduction to General Metals: Cold Metals
	IND	1220	Introduction to General Metals: Hot Metals
	Total.		6

Recor	mmended ART 480	d: additional courses from the list above, ART 3980 Cooperative Education Intern- 1 Studio Assistantship. 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018
Painting Painting st		ntration nust take ART 1541 Drawing II as a foundation course.
The f	following	courses are required for the concentration:
ART ART ART ART ART ART Total. Choo	H 3XXX 2661 3261 3661 4261 4661 4701 sse 15 hourses 15 hourses 15 hourses 15 hourses 15 hourses	Upper Division Art History Elective (see list p. 119)
_		oncentration ents must take ART 1531 Introduction to Digital Art and Design as a foundation
The f	ollowing	courses are required for the concentration:
COU ARTI ARTI ART ART ART ART ART ART Total.	RSES H 3300 H 3790 H 3XXX 2237 2671 3271 3671 4271 4671 4701	Art and Cultural Heritage
ship.	estions: A	1 3980 Cooperative Education Internsnip, ART 48/3 Photography Assistant-
Total	for the C	oncentration
Printmaki	ng stude	Oncentration nts must take both ART 1541 Drawing II and ART 1531 Introduction to Digital Art .531 will be counted in the concentration.
The f	following	courses are required for the concentration:
COU:		Upper Division Art History Elective (see list p. 119)

	ART	1531	Introduction to Digital Art and Design
	ART	2237	Constructing the Digital Image
	ART	2681	Printmaking I
	Select	2 course	es (6 hours) from:
	ART	3281 -or-	Printmaking II: Lithography
	ART	3283 -or-	Printmaking II: Intaglio
	ART	3285 -Plus:-	Printmaking II: Screenprinting
	ART	3681	Printmaking III
	ART	4281	Printmaking IV
	ART	4681	Printmaking V
	ART	4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit (Senior Experience)
	Select	2 course	es (6 hours) of upper division drawing courses
			rs from sculpture, ceramics, or jewelry design and metalsmithing
			ars art or art history electives
	Total f	or the Co	oncentration
Scul _j datio	pture s	tudents rse. Stud	entration may take either ART 1541 Drawing II or IND 1470 Perspective Drawing as a foundents must also take ART 1531 Introduction to Digital Art and Design which will be centration.
The	followi	ng cour	rses are required for the concentration:
	COUR	SES	
		3XXX	Upper Division Art History Elective (see list p. 119)
	ART	1531	Introduction to Digital Art and Design
	ART	2691	Sculpture I
	ART	2611	Ceramics I
	ART	2651	Jewelry Design and Metalsmithing I
	ART	3291	Sculpture II
	ART	3293	Functional Sculpture
	ART	3691	Sculpture III
	ART	4291	Sculpture IV
	ART	4691	Sculpture V
	ART	4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit (Senior Experience)
	Total		•
			ance of three courses from any other studio concentration
	Choos	e a sequ	ence of three courses from any other studio concentration
	Choos	e a sequ e 9 hou	ence of three courses from any other studio concentration
	Choos Choos Recom	e a sequ e 9 houi imended	ence of three courses from any other studio concentration
	Choos Choos Recom The As	e a sequ e 9 hou nmended rtist's Bo	ence of three courses from any other studio concentration
	Choos Choos Recom The Ar	e a seque 9 hour nmended rtist's Bo	ence of three courses from any other studio concentration
Art	Choose Choose Recommend The Astronaut for Education	e a seque 9 hour nmended rtist's Bo for the Co	ence of three courses from any other studio concentration
Art	Choose Choose Recommend The Art Total for Education Specification Choose	te a sequine 9 hour mended rtist's Boor the Continuous ation (circ General sequence)	ence of three courses from any other studio concentration
Art	Choose Recommend The Astronaut of Total f	te a sequine 9 hour mended rtist's Boor the Continuous ation (circ General sequence)	ence of three courses from any other studio concentration

EDS 3200

MTH 1610

	SPE Gener	1010 al Studi	Public Speaking (Communication)
			on students must take ART 1531 Introduction to Digital Art and Design as a
		lation c	· · · · · · · · · · · · · · · · · · ·
	Cours	es for th	ne Concentration in Art Education
	ARTH	I 3080	Art of the 20th and 21st Centuries
	ARTH	I 3300	Art and Cultural Heritage
	ARTH	I 4480	Art Theory and Criticism
	ART		Color Theory and Practice
	ART	2611	Ceramics I
	ART	2651	Jewelry Design and Metalsmithing I
	ART ART	2661 2671	Painting I
	ART	2681	Photography I
	ART	2691	Sculpture I
	ART	3601	Introduction to Art Education
	ART	3605	The Inclusive Music and Art Classroom
	ART		Art Methods K–12.
	ART	4701	Senior Experience Studio: Portfolio Development and Thesis Exhibit
			(Senior Experience)
	ART	4703*	Student Teaching and Seminar: Elementary K–6
	ART	4704*	Student Teaching and Seminar: Secondary 7–12
	EDS	3120	Field Experiences in Multicultural Urban Secondary Schools
	RDG	3280	Teaching Literacy Skill Development in the Content Areas
			rt major with Art Education Concentration
Cho	ose an	emphas	sis area from those listed below:
	Cera	mics	
	ART	3211	Ceramics II
	ART	3611	Ceramics III
	ART	4211	Ceramics IV
	ART	4611	Ceramics V
	Total.		12
	Dioi	tal Art	
	ART	2222	Visual Thinking
	ART	2237	Constructing the Digital Image
	ART	3235	Video Art
	ART	3635	Web Art I
	ART	4631	Digital Art Portfolio
	Total.		
	Drav	vina	
		U	Danisha II
	ART ART	1541 3241	Drawing II
	ART	3641	Drawing IV.
	ART	4241	Drawing V
	ART	4641	Drawing VI.

Jewe	lry De	sign and Metalsmithing
ART	3251	Jewelry Design and Metalsmithing II
ART	3651	Jewelry Design and Metalsmithing III
ART	4251	Jewelry Design and Metalsmithing IV
ART	4651	Jewelry Design and Metalsmithing V
Total.		
Pain	ting	
ART	2666	Watermedia I
ART	3261	Painting II
ART	3661	Painting III
ART	4261	Painting IV
ART	4661	Painting V
Dhat	o awan l	hw.
	ograpl	
ART	2237	Constructing the Digital Image
ART	3271	Photography II: Black and White
ART	3671	Photography III: Color
ART	4271	Photography IV: Theory and Practice
ART	4671	Photography V: Portfolio
	tmakir	· ·
		es (6 hours) from:
ART	3281	Printmaking II: Lithography
A DT	-or-	Printmaking II: Intaglio
ART	3283	Printmaking II: Intaglio
A DT	-or-	Printmaking II: Screenprinting
ART	3285	Printmaking II: Screenprinting
ART	-plus- 3681	Printmaking III
ART	4281	Printmaking IV
ART	4681	Printmaking V
C 1-		
	pture	0.1. 77
ART	3291	Sculpture II
ART	3691	Sculpture III
ART	4291	Sculpture IV
ART	4691	Sculpture V
		ing is composed of daily full-time work during 16 weeks, split 8 and 8 weeks between
eiemei	ntary an	d secondary levels. ART 4703 is dual-listed with EDU 4190; ART 4704 is dual-listed

more information.

Students seeking teacher licensure should read the teacher licensure sections of this Catalog and stay in regular contact with their advisors.

with EDS 4290. Students must also achieve satisfactory scores on the state licensure examination. See your advisor for

Art Licensure Only: K-12

Coursework in teacher licensure is available through the Art Department. An existing BFA in a studio area is required. Students seeking licensure with a degree in Art other than a BFA may need to take additional coursework to meet licensure requirements. Licensure students must take MTH 1610 Integrated Mathematics I and must meet all requirements for post-baccalaureate candidates. Students must also achieve satisfactory scores on the state licensure examination. See your advisor for more information. Students seeking teaching licensure should read the teacher licensure section of this Catalog, and they should stay in regular contact with their advisors.

REQUIRED C	REQUIRED COURSES		
ART 3601	Introduction to Art Education		
ART 3605	The Inclusive Music and Art Classroom		
ART 4201	Art Methods K–12		
ART 4703*	Student Teaching and Seminar: Elementary K–6		
ART 4704*	Student Teaching and Seminar: Secondary 7–12 6		
EDS 3110	Processes of Education in Multicultural Urban Secondary Schools		
EDS 3120	Field Experiences in Multicultural Urban Secondary Schools		
EDS 3200	Educational Psychology Applied to Teaching		
RDG 3280	Teaching Literacy Skill Development in the Content Areas		
Total	34		
*Student teaching is composed of daily full-time work during 16 weeks, split 8weeks and 8 weeks			
between eleme	between elementary and secondary levels. ART 4703 is dual-listed with EDU 4190; ART 4704 is dual-		
listed with ED	S 4290.		
Recommende	d:		
ARTH 3300	Art and Cultural Heritage		
ART 1531	Introduction to Digital Art and Design		
(ART 1531 is required for students who did not take an equivalent course as part of their degree.)			

Art Major for Bachelor of Arts

Art History, Theory and Criticism Concentration

FOUNDATION REQUIREMENTS SEMESTER HOURS				
ARTH	1600	World Art I: Art before 1200		
ARTH	1700	World Art II: Art since 1200		
ART	1101	Two-Dimensional Design		
ART	1141	Drawing I		
ART	1501	Three-Dimensional Design		
ART	1531	Introduction to Digital Art and Design		
Total F	oundati	on Requirements		
Founda	ation co	urses must be completed before proceeding. A letter grade of "C" or better is required in		
each fo	undatio	n course and each course specifically required for the concentration.		
ARTH	3080	Art of the 20th and 21st Centuries		
Choose	e two of	the following:		
ART	1541	Drawing II		
ART	2222	Visual Thinking		
ART	2237	Constructing the Digital Image		
ART	2611	Ceramics I		
ART	2651	Jewelry Design and Metalsmithing I		
ART	2661	Painting I		
ART	2671	Photography I		
ART	2681	Printmaking I		
ART	2691	Sculpture I		
Total		9		

Art History electives:

Choose 7 courses (21 hours) from the following or from approved omnibus art history courses (ARTH 39XX or ARTH 49XX). At least 3 courses (9 hours) must be in the history of art prior to 1900 (see advisor).

ARTH 3300	Art & Cultural Heritage*	3
ARTH 3310	African Art	3
ARTH 3330	Egyptian Art	3
ARTH 3340	Asian Art	3
ARTH 3360	Contemporary Chicana/o Art*	3
ARTH 3380	Women's Art/Women's Issues*	3
ARTH 3520	The Medieval Artist: Variable Topics**	
ARTH 3530	The Renaissance Artist: Variable Topics**	3
ARTH 3540	The Baroque Artist: Variable Topics**	3
ARTH 3660	Art Nouveau	3
ARTH 3670	History of Art between World Wars	3
ARTH 3690	History of Communication Design	3
ARTH 3790	History of Photography	3
ARTH 3880	Understanding Visual Language	3
ARTH 3890	Contemporary Print History	3
ARTH 4210	Site Specific Studies in Art History: Variable Topics**	3
ARTH 4410	Art History and Its Methods	3
ARTH 4510	Exhibiting the Art Object	
Total, Art Histo	ry electives	
ARTH 4480	Art Theory and Criticism	3
ARTH 4700	Senior Thesis in Art History (Senior Experience)	3
Total for the mo	ijor	,4
	s 3	
Two semesters	of the same foreign language***	(
Electives		
Total for the de	gree	20

A minimum of 27 upper-division art history hours required. A minimum of 40 upper-division hours total are required for the degree.

Note: four semesters of French or German are required for entrance into most graduate programs in art history, theory and criticism. Both French and German are required for entrance into Ph.D. programs in art history, and doctoral research often requires research in at least one additional language.

Minors are optional for all art majors.

Minor in Studio Art

REQUIRED CO	DURSESSEMESTER HOURS	,
ARTH 1600	World Art I: Art before 1200	į
ARTH 1700	World Art II: Art since 1200	,

^{*}Neither ARTH 3300, ARTH 3360, nor ARTH 3380 may be used as the sole art history elective for a studio art concentration. ARTH 3300 may be used to meet the multicultural requirement.

^{**}Title and course numbers for variable topics courses will be distinct for each offering, for example ARTH 352B Medieval Artisans and Craftsmen. A student may take up to three distinct offerings under each variable topics desgination, for example, ARTH 353A The Renaissance Artist: Bosch and Bruegel; ARTH 353B The Renaissance Artist: Leonardo and Michelangelo; and ARTH 353C Court Art and Renaissance Women may all be appilied to the requirements.

^{***}Students who entered college with fluency in a language (or languages) other than English are encouraged to study a language with which they are unfamiliar. Students with a good high school background in a foreign language may take intermediate or advanced courses in that language, or study a new language. The second semester of certain foreign languages may be applied to the General Studies requirement.

	ART	1101	Two Dimensional Design
	ART ART	1141 1501	Drawing I 3 Three Dimensional Design 3
	ART	1531	Introduction to Digital Art and Design
	711(1	-or-	introduction to Digital Fire and Design
	ART	1541	Drawing II
A le	tter gra	ide of "(C" or better is required in each of the courses listed above.
	Studio	o Art Ele	ectives (Minimum of six upper-division art hours required)
	Total.		
Mi	nor i	in Ar	t History, Theory and Criticism
	-		OURSES SEMESTER HOURS World Art I: Art before 1200 3
		H 1600 H 1700	World Art II: Art since 1200
		I 3080	Art of the 20th and 21st Centuries
			of "C" or better is required in each of the courses listed above.
			ectives (see list p. 119)
	Minir	num of 1	nine upper division art history hours required
	Total.		
			RAL SCIENCE PROGRAM of Sociology, Anthropology and Behavioral Science
	_		achelor of Arts
emp	hasize	s bread	ed major, offering students a structured overview of the social sciences. This program the of coverage with a focus in an area selected by the student. This major is particular students interested in teacher licensure at the elementary and secondary levels.
			have preliminary approval of the selected program by an advisor from the Sociology and partment. A minimum of 12 upper-division hours in the major must be taken at MSCD.
	REQU	JIRED C	OURSESSEMESTER HOURS
		1310	Introduction to Cultural Anthropology
	ECO	2010	Principles of Economics–Macro
	HIS	1220	American History since 1865
	PSC	1010	American National Government
	PSY	1001	Introductory Psychology
	SOC	1010	Introduction to Sociology
	SUUIO	ш	
	ted Fo		
			introductory course, each student must select 12 hours in one of the following social
			: anthropology, economics, history, political science, psychology, or sociology. A mini- livision hours must be selected with the approval of an advisor.

General Electives

An additional 12 hours must be selected from any of the disciplines outside of the elected focus. Courses may be selected from anthropology, economics, history, political science, psychology, or sociology. At least 9 of these hours must be upper division. No more than 6 hours may be taken in any one discipline.

ıbtotal	
otal	

General Studies Requirements

The student is expected to complete all General Studies requirements as stated in this *Catalog*. The student may use up to 6 hours from the required courses for the behavioral science major to complete the social science component.

Senior Experience

Selection of a Senior Experience course will vary according to the student's needs. Students seeking teacher licensure must select student teaching. Other students may select the capstone course in their focus or the applied anthropology course currently being developed by the department.

Students desiring teacher licensure should see an advisor in the teacher education program.

No minor is offered.

Behavioral Science Major with Teacher Licensure, pages 309, 319 and 349

BIOLOGY DEPARTMENT

The Biology Department offers two majors, the bachelor of science in biology and the bachelor of arts in biology. Supportive courses associated with paramedical studies and criminalistics, as well as general courses for enrichment of the nonscience student's background, are offered by the department.

Students seeking teacher licensure, either elementary or secondary, should see an advisor in the Biology Department as well as in the teacher education program.

Students interested in preparation for medical school or other health professions should contact the Biology Department for specialized advising. A senior exit exam, administered and required by the department, must be taken during the semester of anticipated graduation. The Biology Departmentmain office is located in Science Building, Room 213, 303-556-3213. A biology minor is offered to students with related majors or a special interest in the field.

Guidelines for Field Experience/Internship/Practicum/Workshop/Cooperative Education Courses

No more than four semester credit hours with the following course numbers will be applied toward the 40 semester hours of biology courses required for graduation: BIO 2888, 2980, 2990, 3970, 3980, 4888, 4980, and 4990. However, the additional credits with the above course numbers may be applied toward general elective hours.

Biology Major for Bachelor of Science

REQUIRED COURSES					
BIO	1080	General Biology I			
BIO	1090	General Biology Laboratory I			
BIO	1081	General Biology II			
BIO	1091	General Biology Laboratory II			
BIO	3600	General Genetics			
Select	two of	these options:			
Optio	Option 1: BIO 2100 General Botany				
Optio	Option 2: BIO 2400 General Microbiology				
Optio	Option 3: Both BIO 2310 and BIO 2320 Human Anatomy and Physiology I and II 8				
Optio	Option 4: BIO 3050 Cell and Molecular Biology				

Option 5: Either BIO 3200 Invertebrate Zoology or BIO 3260 Vertebrate Zoology Select one of the following: BIO 4510 Microbial Ecology	4 4
Electives Biology courses selected from the 2000-, 3000-, and 4000-level series, and approved by factors in the Biology Department, must be completed to bring the total of biology courses for the major to 40 semester hours. Electives	approved
At least 21 semester hours of the major (including genetics, ecology and upper-electives) must be from the 3000- and 4000-level courses of the Biology Department <i>Total (minimum)</i>	t.
Required Non-Biology Courses One year of college general chemistry with lab, one semester of upper-division organic with lab, one semester of upper-division biochemistry, and one year of mathematics star MTH 1110 or above, are requisites for the bachelor of science major in biology. CHE 3110 Chemistry II) and CHE 3130 (Organic Chemistry II Laboratory) may be substituted for division biochemistry requirement with permission of a Biology Department academic a	rting with Organic the upper
REQUIRED COURSES	

Medical Technology Concentration

Students must satisfy the requirements listed for the bachelor of science major in biology, including BIO 2400. Students must also take BIO 3350, BIO 4440, and BIO 4450. Additional hours must be taken from the courses listed below to complete a minimum of 21 hours of upper-division courses and a minimum of 40 semester credit hours in biology.

ELECT	IVE CO	URSES	SE	ME	ST	ER	H	OU	RS
BIO	3050	Cell and Molecular Biology							. 4
BIO	3210	Histology							. 4
BIO	3270	Parasitology							. 4
BIO	3360	Animal Physiology							. 4
BIO	4160	Mycology							. 4

Internship

Completion of a medical technology internship at an approved school of medical technology.

Required Non-Biology Courses

The student must satisfy the requirements listed for non-biology courses for the bachelor of science major in biology and complete the requirements for a minor in chemistry.

Cell and Molecular Concentration

Students must satisfy the requirements for a bachelor of science major in biology and must include BIO 2400, BIO 3050, and BIO 4510. This concentration requires a total of at least 43 semester hours of biology courses including BIO 273 *Methods in Cell Biology and Immunology* and BIO 274 *Nucleic Acid Techniques and Molecular Cloning*, which must be successfully completed at the Community College of Aurora, and at least 10 semester hours from the following list of electives:

ELEC	TIVE CO	URSES SEMESTER HOURS
BIO	3210	Histology
BIO	3270	Parasitology 4
BIO	3340	Endocrinology
BIO	3350	Immunology 4
BIO	4050	Advanced Cell and Molecular Biology 4
BIO	4060	Cellular and Molecular Biology Laboratory
BIO	4400	Microbial Physiology
BIO	4440	Virology
BIO	4450	Pathogenic Microbiology
BIO	4470	Microbial Genetics
BIO	3980/4	980 Internship/Independent Study
Subto	tal (mini	mum)

Required Non-Biology Courses

The student must satisfy the requirements listed for nonbiology courses for the bachelor of science major in biology and complete the requirements for a minor or second major in chemistry.

Biology Major with Teacher Licensure, page 344

Minor in Biology

REQUIRED	COURSES SEMESTER HOURS		
BIO 108	O General Biology I 3		
BIO 109	General Biology Laboratory I		
BIO 108	1 General Biology II		
BIO 109	1 General Biology Laboratory II		
Select one	of these options:		
Option 1: BIO 2100 General Botany			

Option	n 2: BIC	2400 General Microbiology	5
Option	n 3: Bot	h BIO 2310 and BIO 2320 Human Anatomy and Physiology I and II	8
Select	one of t	he following:	
BIO	3050	Cell and Molecular Biology.	4
BIO	3200	Invertebrate Zoology	4
BIO	3260	Vertebrate Zoology.	4
BIO	3600	General Genetics	4
BIO	4510	Microbial Ecology	
BIO	4540	Plant Ecology	4
BIO	4550	Animal Ecology	4
Subtotal			0
Electiv	ves		
Biolog	y cours	es from the 2000-, 3000-, and 4000-level series, approved by the Biology Depar	rt-
ment, must be completed to bring the total of biology courses approved for the minor to 24			
semester hours.			
Total (minimu	m) 2	4

CHEMISTRY DEPARTMENT

The Chemistry Department Program is approved by the American Chemical Society and offers several degree programs: the bachelor of science in chemistry; bachelor of science in chemistry criminalistics concentration; and the bachelor of arts in chemistry. Minors in chemistry and criminalistics are also available.

Students who plan to pursue a career in chemistry after graduation or plan to attend graduate school in chemistry should choose the bachelor of science in chemistry program. The bachelor of arts in chemistry program is designed for students who plan a career in a field related to chemistry, but who do not intend to attend graduate school in chemistry. The bachelor of arts option, which requires fewer hours, may be especially attractive to those wishing a second major or to those students desiring secondary education licensure.

Criminalistics is the scientific investigation, identification, and comparison of physical evidence for criminal or civil court proceedings. Criminalists must be trained in many disciplines including chemistry, biology, law enforcement, physics, and mathematics. The four-year criminalistics curriculum leads to a bachelor of science degree and includes a half-time internship in a criminalistics laboratory during the senior year. Students in the criminalistics program are encouraged to complete all the requirements for a degree in chemistry approved by the American Chemical Society while completing the criminalistics degree program. Graduates of the program are prepared for employment in criminalistics and have completed the requirements for admission to graduate school in chemistry or criminalistics, medical school, dental school, or law school.

For further information about the criminalistics programs, students should contact the Chemistry Department. Students seeking secondary education licensure in science should see an advisor in the teacher education program for requirements.

The following courses constitute the basic core and are required in all chemistry degree programs except for the minor in chemistry.

BASIC CORE	SEMESTER HOURS
CHE 1800	General Chemistry I
CHE 1810	General Chemistry II
CHE 1850	General Chemistry Laboratory
CHE 3000	Analytical Chemistry
CHE 3010	Analytical Chemistry Laboratory
CHE 3100	Organic Chemistry I
CHE 3110	Organic Chemistry II
CHE 3120	Organic Chemistry I Laboratory
CHE 3130	Organic Chemistry II Laboratory
Total	

	•	lajor for bachelor of Science
_		OURSESSEMESTER HOURS
Basic		
	-	ed Chemistry Courses:
CHE	3250	Physical Chemistry I
CHE	3260	Physical Chemistry II
	3280	Physical Chemistry I Laboratory
	3290	Physical Chemistry II Laboratory
	tal	12
Electives		
		of 10 semester hours in upper division chemistry courses selected in consultation
		oved by the Chemistry Department is required. The senior experience in Chemistry
		oes not count as an elective. Students may take any senior experience approved by
the C	ollege.	
		equired
Required A	ancillary	Courses for Bachelor of Science
MTH	1410	Calculus I
MTH	2410	Calculus II
MTH	2420	Calculus III
PHY	2311	General Physics I
	-and-	
PHY	2331	General Physics II
	-or-	
PHY	2010	College Physics I
	-and-	
PHY	2020	College Physics II
Subto	tal	
American	Chemica	al Society Approval:
		rican Chemical Society degree criteria the following courses must be completed)
	2300	Inorganic Chemistry
	4100	Instrumental Analysis
CHE	4110	Instrumental Analysis Laboratory
CHE	4300	Advanced Inorganic Chemistry
	4310	Biochemistry I
Electives		
	ditional	3 credit hours of upper division level electives are required. Electives should be selected
		with the Chemistry Department. The following courses may be appropriate:
		HE 4020, CHE 4320, and CHE 4350 3
10ии.		
Crimina	listics (Concentration
		f a minor is waived for students in this program.
The requir	ciliciit o	i a minor is warved for students in this program.
		nis program of study must choose either Option A or B. The Senior Experience cours ion is CHE 4710. The requirement of a minor is waived for students in this program
DEOI	HDED C	OURSESSEMESTER HOURS
		ry Core
Addit	ional Re	equired Chemistry Courses:
CHE	4100	Instrumental Analysis
CHE	4110	Instrumental Analysis Laboratory
CHE	4310	Biochemistry 1
	4350	Biochemistry Laboratory
		10

Requ	ired C	riminal	istics Courses:
	CHE	2710	Introduction to Criminalistics
	CHE	3700	Criminalistics I
	CHE	3710	Criminalistics II
	CHE	4710	Criminalistics Internship II
	Subibli	ш	
Regu	ired Pl	hysical (Chemistry Options (Select A or B):
rioqu		1,01041	one many of them (extern of 2).
	Option	n A:	
	CHE	3190	Survey of Physical Chemistry
	CHE	3200	Survey of Physical Chemistry Laboratory
	CHE	4700	Criminalistics Internship I 5
	Suoion	и	
	Option	n B:	
	CHE		Physical Chemistry I
	CHE		Physical Chemistry I Laboratory
		3260	Physical Chemistry II
	CHE		Physical Chemistry II Laboratory
	MTH		Calculus II
	MTH	2420	Calculus III4
	Subtot	al	
ъ	. 1 4	*11	
•			Courses:
	BIO	1080	General Biology I*
	BIO	1090	General Biology Laboratory I*
	BIO	3050	Cell and Molecular Biology
	BIO	3600	General Genetics
	CIC	1010	Introduction to the Criminal Justice System*
	CIC	2120	Evidence and Courtroom Procedure
	-01		
	CIC	2140	Criminal Procedure
	MTH		Introduction to Statistics*
			introduction to statistics
	-01		D 1 129 10 2 2
	MTH		Probability and Statistics
	MTH	1410	Calculus I
	PHI	1030	Ethics*
	PHY	2010-2	040* College Physics I and Laboratory, College Physics II and Laboratory
	-01	:-	
	PHY	2311 -2	341* General Physics I and Laboratory, General Physics II and Laboratory 10
Addi	tional	Course	Requirements
	ENG	1010	Freshman Composition: The Essay*
	ENG	1020	Freshman Composition: Analysis, Research, and Documentation*
	XXX	XXX	Level I General Studies- Communications*
	XXX		Level II General Studies - Historical*
	XXX		Level II Genera! Studies - Arts and Letters*
	XXX		Level II General Studies - Social Sciences*
	XXX		
			Multicultural Graduation Requirement**
		_	n A
			n B
*]			along with the required ancillary courses PHY 2010, 2030, 2020, 2040 or PHY 2311,
	2321,	2331, 23	341, CJC 1010, MTH 1410, and PHI 1030 count as General Studies courses.
**	Some	Level I	I General Studies courses satisfy the multicultural graduation requirement If such a

^{**} Some Level II General Studies courses satisfy the multicultural graduation requirement If such a course has been chosen by a student selecting Option A, then 3 credit hours of unrestricted electives are required.

Chemistry Major for Bachelor of Arts

	SEMESTER HOURS
·	
Additional Required Che	
CHE 3190 Survey of Pl	hysical Chemistry
	hysical Chemistry Laboratory
Electives	
A minimum of 6 upper of	livision semester hours in chemistry courses selected in consultation
with and approved by the (Chemistry Department is required. The senior experience in Chemistry
* * *	nt as an elective. Students may take any senior experience approved by
the college.	, , , , , , , , , , , , , , , , , , , ,
	6
Required Ancillary Cours	es
MTH 1410 Calculus I.	4
PHY 2010 College Phy	sics I
Total Ancillary Courses Requ	uired
	45

Chemistry Major with Teacher Licensure, page 345

Minor in Chemistry

Students completing the basic chemistry core (26 hours) qualify for a minor in chemistry. Students may elect to substitute 5 semester hours in other upper division chemistry courses for CHE 3110 and CHE 3130.

CORE	
CHE 1800	General Chemistry I
CHE 1810	General Chemistry II
CHE 1850	General Chemistry Laboratory
CHE 3000	Analytical Chemistry
CHE 3010	Analytical Chemistry Laboratory
CHE 3100	Organic Chemistry I
CHE 3110	Organic Chemistry II
CHE 3120	Organic Chemistry I Laboratory
CHE 3130	Organic Chemistry II Laboratory
Total	26

Minor in Criminalistics

REQUIRED (COURSESSEMESTER HOURS
CHE 1100	Principles of Chemistry*
CHE 1150	Principles of Chemistry Laboratory**
CHE 2710	Introduction to Criminalistics
CHE 2711	Introduction to Criminalistics Laboratory
CHE 2750	Arson and Explosives
CHE 2760	Field Testing and Laboratory Analysis of Drugs
CHE 3600	Crime Scene Investigation I
CHE 3610	Crime Scene Investigation II
CJC 2120	Evidence and Courtroom Procedures
Total	

^{*}CHE 1800 General Chemistry 1 may be substituted for CHE 1100 Principles of Chemistry.

^{**}CHE 1850 General Chemistry Lab may be substituted for CHE 1150 Principles of Chemistry Laboratory.

CHICANA AND CHICANO STUDIES DEPARTMENT

The Chicana and Chicano Studies Department offers a bachelor of arts degree in Chicano Studies plus a minor. The Chicana/o and other Latino historical experiences are used as points of departure toward expanding awareness of the multicultural world and the contributions of Chicanas/os. The program is designed to assist in the preparation of scholars, human service providers, and teachers.

Students have the following options for majoring in Chicano Studies: major for the bachelor of arts; and major for the bachelor of arts with teacher licensure in secondary social studies. Students can also earn a minor in Chicano Studies.

Chicano Studies Major for Bachelor of Arts

The requirements include core courses in the major, basic knowledge of the Spanish language, plus approved electives.

REQUIRED (COURSESSEMESTER HOURS
CHS 1000	Introduction to Chicana/o Studies
CHS 1010	History of Meso-America: Pre-Columbian and Colonial Periods (HIS 1910) 3
CHS 1020	History of the Chicana/o in the Southwest: 1810 to Present (HIS 1920)
CHS 2010	Survey of Chicana/o Literature (ENG 2410)
CHS 3100	The Chicana/o Community (SOC 3130)
CHS 4850	Research Experience in Chicana/o Studies
Subtotal	
Language Re	equirements
SPA 1010	Elementary Spanish I
SPA 1020	Elementary Spanish II
SPA 2110	Spanish Reading and Conversation I
-or-	
SPA 2120	Spanish Reading and Conversation II
Subtotal	
Approved Ele	ectives*9
Total	40

^{*}Nine (9) semester hours of electives in Chicana/o Studies are required and must be selected in consultation with the department chair.

Students pursing secondary licensure must take the required General Studies courses and the secondary education sequence. See the Department of Teacher Education for further information.

Elementary Social Studies Teacher Licensure Concentration: page 320

This new concentration is still under development by the Chicana/o Studies Department. Please see the Department of Teacher Education for further information.

Secondary Social Studies Teacher Licensure Concentration: page 351

Minor in Chicano Studies

The minor can be designed to provide the student with course experiences that are relevant to occupational and educational goals. Students, in consultation with a faculty advisor in Chicana/o Studies, will develop individual minors that reflect the best possible elective curricula and ensure that a relevant concentration is maintained. Total hours for the minor are 21.

REQU	IRED CO	DURSESSEMESTER HOURS
CHS	1000	Introduction to Chicana/o Studies
CHS	1010	History of Meso-America: Pre-Columbian and Colonial Periods
CHS	1020	History of the Chicana/o in the Southwest: 1810 to Present
CHS	2010	Survey of Chicana/o Literature
Electiv	res*	9
Total.		21

COMPUTER SCIENCE

Department of Mathematical and Computer Sciences

The Mathematical and Computer Sciences Department offers a bachelor of science degree in computer science. The department offers a computer science minor which complements such majors as mathematics, engineering technology, the other sciences, and economics. All students who are considering a major or minor in computer science are expected to consult with faculty for advising.

The computer science major offers the theory and application of computer science which includes programming, data structures, database, networking, architecture, and software engineering.

Non-Major Courses in Computer Science

The department offers courses as Computer Science Studies (CSS) that do not count toward a major in computer science. Some of the courses count toward majors in other programs. The Computer Science Studies courses are on topics appropriate to computer science but focused toward current, particular expertise.

Major in Computer Science for Bachelor of Science

The department offers a complete degree program in computer science that follows the guidelines of the Computing Curricula 2001 for Computer Science, a joint undertaking of the Computer Society of the Institute for Electrical and Electronic Engineers (IEEE-CS) and the Association for Computing Machinery (ACM). Students are encouraged to contact the department for further details (303-556-3208). The Senior Experience course in computer science is CS 4260. The CS program includes a required mathematics minor. A grade of "C" or better is required in all CS courses included in the major as well as in all courses included in the required mathematics minor. Please note that the CS prefix replaces the old prefix of CSI.

REQUIRED CORE COURSES			
CS	1050	Computer Science 1*	. 4
CS	2050	Computer Science 2	. 4
CS	2400	Computer Organization and Assembly Language	. 4
CS	3050	Computer Science 3	. 4
CS	3210	Principles of Programming Languages	. 4
CS	3240	Introduction to the Theory of Computation	. 2
CS	3600	Operating Systems	. 4
CS	3700	Computer Networks	. 4
CS	3800	Fundamentals of Relational Database Systems	. 2

^{*}Electives: A minimum of 9 semester hours of electives is required to complete the minor. The courses are to be selected in consultation with a Chicana/o Studies faculty advisor.

	CS	4050	Algorithms and Algorithm Analysis
	CS CS	4250 4260	Software Engineering Principles. 4 Software Engineering Practices 4
	*CS 10	050 is a	required course and part of the mathematics minor.
		-	f 6 additional credit hours selected from upper division CS courses or MTH 4480. e major (including CS 1050)
	SPE COM	1010 2610 2311-2	Cillary Courses Public Speaking
	CHE	1800, 0	CHE 1810, CHE 1850 General Chemistry I, II, and Laboratory
	-o BIO EET PHI Subtot	1080-1 2310 3370	091* General Biology I and Laboratory, General Biology II and Laboratory10-12 Digital Circuits I
	*BIO	1081 ha	s a Pre/Corequisite of CHE 1100 or CHE 1800
Mat	hemati	ics Min	or (Required for the Computer Science Major)*
	MTH MTH MTH MTH MTH	1410 C 2140 C 2410 C 3100 I 3210 P 3220 I	SEMESTER HOURS Calculus I 4 Computational Matrix Algebra ** 2 Calculus II 4 Introduction to Mathematical Proofs 3 Probability and Statistics (Calculus-based) 4 Design of Experiments 4 Including CS 1050, 4 hours) 21
			art of the mathematics minor. may be substituted for MTH 2140.
Add	ENG ENG XXX XXX		Requirements Freshman Composition: The Essay*
Thre	ee addi	tional h	ours from the areas of communication, historical, arts and letters,
	and/or Unres	r social tricted I	sciences 3 Electives 3-5
	1081, tion re	1091, P quireme	s along with CHE 1800, 1810, 1850 or PHY 2311, 2321, 2331, 2341 or BIO 1080, 1090, HI 3370, and SPE 1010, count as General Studies courses. The Multicultural graduaent of 3 credit hours must also be satisfied.
	Total		

As an alternative to the B.S. degree program, the Department works with the Center for Individualized Learning to provide students with programs customized to their educational needs. Currently we have guidelines for degrees in computer game development, immersive technologies, and computer crime and security.

MINOR IN COMPUTER SCIENCE

A grade of "C" or better is required in each course included in the minor.

REQU	JIRED C	CORE COURSESSEMESTER HOURS
CS	1050	Computer Science 1
CS	2050	Computer Science 2
Electi		
A min	imum o	f 12 semester hours chosen from CS 2400* and upper-division CS courses 12
Total.		

Certificate Program Available

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

Advanced Software Engineering Techniques

This certificate will prepare students as software engineering professionals specializing in software team leadership.

Background to begin certificate: experience in software development and knowledge of the software engineering principles taught in CS 4250.

CS	4281	Software Requirements	3
CS	4282	Software Development Management	3
CS	4283	Software Testing and Quality Assurance	3
CS	4284	Software Product Engineering	3
CS	4285	Best Practices in Software Development	3
Total.			5

DIGITAL MEDIA

Departments of Art, Communication Arts and Sciences, and Technical Communications and Media Production

Digital Media Minor

The Digital Media Minor includes courses from the departments of Art, Communication Arts and Sciences, and Technical Communications and Media Production. This minor consists of 24 hours, 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. In addition to required core courses, students choose one of the following concentrations: motion media, interactive media, content design or still media. The motion media concentration deals with television and corporate video production. Students in interactive media work with computer graphics, interactive applications and Web-based media production. The content design concentration focuses on the design of the message from the visual and written perspective. Still-media students explore with photography, photojournalism, and computer imaging. Courses that are recommended to fulfill the General Studies Level II Arts & Letters requirement are: ARTH 1500 or ARTH 2100 or LAS 2850. Students should contact an advisor to plan a course of study for their particular minor. If you have taken any one of the required courses as part of your major, you must substitute another course(s) in the minor for it.

REQU	TRED C	OURSESSEMESTER HOU	RS
ART	1531	Introduction to Digital Art and Design	. 3
ART	1101	Two Dimensional Design	. 3

^{*}EET 2310 is a prerequisite for CS 2400

,		1010 ed Core	Introduction to Journalism and Mass Media 3 Total
the fou	ır coı	ncentra	ses from one of the four concentrations. In addition, choose one course from any of tions. Courses cannot be used to meet both the requirements of this minor and the major in Art, Journalism, Speech Communication, or Technical Communications.
Still N	Aedi	a Con	centration
C	OUR	SES	
A	RT	1271	Basic Photography Methods
A	RT	2222	Visual Thinking
A	RT.	2237	Constructing the Digital Image
	RN	2600	Introduction to Photojournalism
JF	RN	3600	Photojournalism I
	RN	4600	Photojournalism II
JF	RN	4890	Social Documentary
Intera	activ	e Med	lia Concentration
С	OUR	SES	
A	RT	2237	Constructing the Digital Image
A	RT	3235	Video Art
A	RT	3631	Interactive Multimedia Art
A	RT	3635	Web Art I
С	OM	2450	Basic Multimedia Production
C	OM	2470	Basic DVD Authoring
С	OM	2480	Corporate Animation
С	OM	3450	Intermediate Multimedia/Web Production
С	OM	4450	Advanced Multimedia/DVD Production
Motio	on M	Iedia (Concentration
	OUR		SEMESTER HOURS
		3235	Video Art (prerequisite ART 2237)
		2400	Basic Nonlinear Video Editing
		3400	Intermediate Nonlinear Video Editing
С	OM	4401	Advanced Nonlinear Video Editing
С	OM	2420	Basic Single Camera Video Production
С	OM	3420	Intermediate Single Camera Video Production
С	OM	4420	Advanced Single Camera Video Production
С	OM	4430	Lighting and Directing for Nonbroadcast Video
SI	PE	3430	Radio-Television Announcing
SI	PE	3440	Television Production
SI	PE	4440	Advanced Television Production
Conte	nt T)esion	Concentration
	OUR	•	
		3440	Scriptwriting for Video
		3470	Writing for Interactive Media
		3680	Internet Document Design for Technical Communicators
	RN	1100	Beginning Reporting
	RN	1200	Beginning Editing
	PE	4450	Broadcast Journalism: Television
			Courses
			Courses
	lectiv		
To	otal fo	or Mino	r in Digital Media (6 hours Upper Division required)

EARTH AND ATMOSPHERIC SCIENCES DEPARTMENT

The Earth and Atmospheric Sciences Department (EAS) is composed of three separate disciplines: geography, geology, and meteorology. The department offers degrees in environmental science, land use and meteorology, providing students with a strong background in the physical and quantitative aspects of the environment. Students will receive a bachelor of science degree except when their focused area of interest in land use is urban land use planning (bachelor of arts degree). Each student must have an EAS faculty advisor. Visit Quick Facts at the department Web site (www.mscd.edu/~eas). Minor programs are available in geography, geology, meteorology, and environmental studies. Students working toward teacher licensure in either science or social studies may take courses in geology, geography, or meteorology. Students working toward secondary science teacher licensure in environmental science must consult an EAS environmental science faculty advisor.

Environmental Science

The environmental science major is an extended major (no minor required) designed as an entry-level major for MSCD students as well as for students transferring at the junior level from the community colleges with a background in water quality. Students may choose from five options (concentrations) depending on their areas of interest. The multidisciplinary concentration provides students with a broad-based environmental science background, whereas the concentrations in ecological restoration, environmental chemistry, and water quality are more specialized. The environmental science option for secondary science teacher licensure is the remaining concentration available to students. All concentrations, except for environmental science for teacher licensure, require a unified core. (See Environmental Science on page 142 of this Catalog.)

Land Use

The land use major is an extended major that combines general planning courses with a focused area of study, including environment and resources, geographic information systems, geology, or urban land use planning, linked by the vital thread of land use management. It also equips students with a dynamic foundation for understanding issues and solving problems that confront the community and environment. The program is broad in scope and can be applied to a number of career objectives and graduate school programs. Opportunities exist in such areas as cartography, environment and resource management, environmental science, geographic information systems, geology, mining and mineral resources, planning, population analysis, recreational land use, remote sensing, residential and industrial development, transportation, and a variety of other interrelated fields. (See Land Use on page 160 of this *Catalog.*)

Meteorology

Meteorology is the science of the atmosphere. Meteorologists are employed in operational meteorology, meteorological research, applied meteorology, and the media. The Meteorology Computer Laboratory provides access to real-time weather data and analysis software supported by the UNIDATA Program. The bachelor of science degree conforms to the American Meteorological Society and National Weather Service recommendations for an undergraduate meteorology degree. A mathematics minor is a requirement of the meteorology major. Students should contact a meteorology faculty member to discuss degree programs, career opportunities, and graduate school options. (See **Meteorology** on page 172 of this *Catalog*.)

ENGLISH DEPARTMENT

Role and Mission Statement:

Department of English faculty share a heritage in which language, writing, literature, and the art of teaching are valued as cornerstones of a liberal education. Representing distinct specializations, we form a community of readers and writers who pursue the study of humane letters for both aesthetic and practical reasons. The English Department provides students from across the College with courses that fulfill the Level I General Studies requirement in English composition: English 1010 Freshman Composition: The Essay and English 1020 Freshman Composition: Research, Analysis, and Documentation. The department also teaches literature and linguistics courses that meet the Level II General Studies requirement in Arts and Letters. Thus, in keeping with the liberal arts tradition of general education, the department promotes both the basic intellectual skills of critical reading and writing and the kind of understanding of the human condition that comes from the experience and appreciation of literature.

For students majoring or minoring in English, the program provides a foundation in literature, language, writing, and teaching. Thus students' command of written language, their ability to analyze concepts, and their broad understanding of human nature and social realities will enable them to be competitive in a variety of fields, including education, business, and civil service or, with appropriate graduate work, in professions such as law and higher education.

English department faculty members develop professionally in a variety of ways appropriate to their disciplines, from maintaining currency in the curricula they teach and the instructional technology they employ to scholarly and creative work leading to various forms of publication and presentation. They serve the College and community by volunteering in schools or other organizations concerned with the written word and by sharing with their fellow citizens the insights of teacher-scholars educated in the tradition of the liberal arts.

The English Department offers instruction in literature, writing, language and linguistics' and in elementary and secondary English education. Courses in each area appeal to students in every school of the College who wish to read and understand representative literatures of the world; to examine the principles underlying how language works; and to cultivate their writing skills.

The department invites students in other disciplines to select English courses to enhance their general education. Students may also choose an English major or minor from areas listed below.

Students who are considering a major or minor in the English Department are expected to consult with faculty for advising. Students in elementary or secondary licensure programs should consult with advisors in the appropriate education department as well.

The English major may choose a concentration in one of the following:

- · literature
- writing
- · elementary school teaching, leading to licensure
- · secondary school teaching, leading to licensure

The English minor may choose a concentration in one of the following:

- · language and linguistics
- literature
- writing

The English Department assesses the major in designated Senior Experience courses. Portfolios of papers assigned through these courses will be read by members of the faculty. Senior Experience courses should not be taken until the student's final year of study. Because these courses may not be offered every semester, students should discuss scheduling with English Department advisors.

English Major for Bachelor of Arts

Literature Concentration

The English major, literature concentration, encompasses a range of American, British, and world literature. The program provides a strong foundation of courses in literature and language, sequenced to cultivate a sense of literary development, and fosters an increasing familiarity with major works and writers, critical theory, literary terminology, and research materials. Because of their command of the written language, their ability to deal with ideas and concepts as well as facts, and their broader understanding of human nature and social realities, literature majors are valued in many fields, including academe, the law, and the world of business.

REQUIRED COURSES
ENG 2100 Introduction to Literary Studies
ENG 2220 American Literature: Civil War to Present
ENG 3100 Chaucer, Shakespeare and Milton
ENG 3440 Myth, Symbol, and Allusion in Literature
ENG 4610 Literary Criticism: Theory and Practice (Senior Experience course)
Subtotal15
Three of these courses:
ENG 2110 World Literature: Beginnings to 1600
ENG 2120 World Literature: 1600 to Present
ENG 2210 American Literature: Beginnings through the Civil War
ENG 2220 American Literature: Civil War to Present
ENG 2310 British Literature: Beginnings to 1785
ENG 2330 British Literature: 1785 to Present
Subtotal
Seven Electives: (at least 6 courses must be upper division)
Development course (English literature course with "Development" in title)
Period course (any 311X)
Major Author course (ENG 413X or ENG 4310 or ENG 4320)
Writing course (2000-level or above)
Literature course
Linguistics course
Elective at the 2000-level or above
<i>Subtotal</i>
Total Semester Hours Required

Elementary School Teaching Concentration

The elementary school teaching concentration in English, offered in conjunction with the Colorado State Department of Education licensure program, prepares future teachers of elementary education to understand and teach the diverse subject matter required for licensure. The program will provide students with a strong foundation in literature and literary genres; a solid perspective on the English language, including its history, structure, and constituents; and both theory and practice in composition, language arts, communication, and teaching methodology. It also addresses the need to prepare teachers to teach multicultural literature, accommodate cultural and ethnic diversity in language and writing, and communicate effectively with a diverse population of students.

REQUIRED	COUF	RSES SEMESTER HOURS	
Literature C	ore Co	urses	
ENG :	2100	Introduction to Literary Studies	3
ENG :	2220	American Literature: Civil War to Present.	3
ENG :	3100	Chaucer, Shakespeare, Milton.	3
ENG :	3440	Myth, Symbol, and Allusion in Literature	3
ENG :	3461	Children's Literature: Theory and Practice	3
Subtota	1		5

Languag	e/Linguis	tics Core Courses
EN	G 2010	The Nature of Language
EN	G 3020	History of the English Language
Sub	total	6
Writing/	Composi	tion Courses
EN	G 2500	Art and Craft of Writing
EN	G 3510	Advanced Composition
Sub	total	6
Languag	e Arts Co	re Courses
EN	G 4650	Teaching Composition in the Elementary School K–6
EN	G 4660	Teaching Literature and Language K–6 (Senior Experience course)
RD	G 3110	Foundations of Literacy Instruction in Grades P–6*
Sub	total	6
English l	Electives	
Two	upper-d	ivision English courses selected in consultation with and approved by a designated
		English advisor 6
Tota	ıl	39

^{*}RDG 3110 meets part of the reading requirements for Colorado State licensure and is counted under the student's professional education requirements.

Secondary School Teaching Concentration

DECLUDED COLIDERS

The secondary education concentration in English, offered in conjunction with the Colorado State Department of Education licensure program, prepares future secondary teachers of English to understand and teach the diverse subject matter required for licensure. This program equips students with a wide variety of language principles and skills; practical experience in developing and teaching the processes of writing; sound knowledge of approaches to literature and literary genres; periods and authors (including a special focus on young adult literature); and an understanding of communication and media as used in English studies. In addition to meeting specified state and departmental requirements, this program offers students the opportunity to develop further specialization in writing, language, or literature to complement the major.

CENTECTED HOLDS

REQUI	RED COURSESSEMESTER HOURS
Literature C	ore
ENG	2100 Introduction to Literary Studies
ENG	2210 American Literature: Beginnings through the Civil War
-or	_
ENG	2220 American Literature: Civil War to Present
ENG	3100 Chaucer, Shakespeare, Milton
ENG	3440 Myth, Symbol, and Allusion in Literature
ENG	8
Total	
Language Co	ore
ENG	2010 The Nature of Language
ENG	3020 History of the English Language
Total	6
Composition	n Core
ENG	2500 Art and Craft of Writing
ENG	1 · · · · · · · · · · · · · · · · · · ·
Total	6
Teaching En	glish Core
ENG	4600 Teaching Literature and Communication, 7–12

ENG 4620 Teaching Composition, 7–12
Upper Level Electives
Three upper-division English courses, at least two of which must be literature courses, selected in consultation with and approved by a designated English advisor
Writing Concentration
The writing concentration major provides extensive study, practice, and opportunity for performance in various modes and genres of writing as well as a foundation in the appreciation of the literary heritage in English. The program immerses students in reading, writing, and language and helps prepare them for graduate school or vocation while clearly placing them in the tradition of the liberal arts.
REQUIRED COURSES
Literature Course
Lower-Division Literature Courses: 2000-Level, including ENG 2100
Subtotal18
Language and Linguistics Course: Select one, in consultation with a faculty advisor, from department's offerings. Semester Hours of Language and Linguistics Required
Writing Course:
Entry Course:
ENG 2500 Art and Craft of Writing 3 Subtotal
Writing Electives:
(select four — three must be 3000-level)
JRN 1100 Beginning Reporting
COM 2610 Introduction to Technical Writing
ENG 2520 Introduction to Creative Writing
ENG 3510 Advanced Composition
ENG 352A Creative Writing Workshop: Poetry 3 ENG 352B Creative Writing Workshop: Fiction 3
ENG 352C Creative Writing Workshop: Drama
ENG 3530 Techniques of Critical Writing
ENG 3980 English Cooperative Education
Subtotal
Specialized Writing Courses
ENG 3820 Writing Studio: Variable Topics*
Senior Experience Course ENG 4520 Advanced Writing
Total Semester Hours of Writing Required
Total Semester Hours Required

English Minor

Writing Concentration

The writing concentration minor provides study, practice, and opportunity for performance in various modes and genres of writing as well as a foundation in the appreciation of the literary heritage in English. The program involves students in reading, writing, and language, and helps prepare them for graduate school or vocation, while clearly placing them in the tradition of the liberal arts. Students must meet with a writing faculty advisor in order to understand prerequisites and select proper courses.

Literature Course COURSES Lower-Division Literature Courses: 2000-Level, including ENG 2100
3000-Level or 4000-Level 3 Subtotal .9
Language and Linguistics Course: Select one, in consultation with a faculty advisor, from department's offerings. Semester Hours of Language and Linguistics Required
Entry Writing Course: ENG 2500 Art and Craft of Writing. 3 Subtotal
Writing Electives (select three — two must be 3000-level)
COM 2610 Introduction to Technical Writing
wish to focus on a single age, culture or genre, for example, dramatic literature.
Course should be selected in consultation with a faculty advisor in the Department of English.
Introductory Course: COURSES
Two courses from the following:
ENG2110World Literature: Beginnings to 16003ENG2120World Literature: 1600 to Present3ENG2210American Literature: Beginnings through the Civil War3ENG2220American Literature: Civil War to Present3ENG2310British Literature: Beginnings to 17853

ENG 2330 British Literature: 1785 to Present	
Subtotal	6
Any period course (ENG 311X)	
-or-	
Any development course	
(English literature course with "Development" in title or EN	JG 3240)
Subtotal	3
Departmental Electives	
One course at the 2000-level or above	
Two literature courses at the 3000-level or above	
One 4000-level literature or literary criticism course	
Subtotal	
Total Semester Hours Required	24
*	

Language and Linguistics Minor

The language and linguistics minor offers concepts about, theories of, and analytical techniques in natural language. It represents an intellectual discipline in itself and simultaneously serves the interests of future teachers, students of literature and writing, and others who have a continuing fascination with language as language. The minor is especially complementary for majors in anthropology, English, foreign language teaching, modern languages, philosophy, psychology, sociology, speech communication, and technical communication. The minor requires students to engage in vigorous, progressively more explicit and precise analysis and synthesis as they examine facts and fallacies about the miracle of language. There are two concentrations in the Language/Linguistics minor, one focusing primarily on linguistics (Linguistics Concentration) and the other including a 3-semester language component (Language Concentration).

Linguistics Concentration

•	O CORE COURSES	
ENG 20	0 The Nature of Language	. 3
Any four advisor.	of the following chosen in consultation and with and approved by a department	tal
ENG 30	0 History of the English Language	. 3
ENG 30		
ENG 30	0 Morphology and Syntax	. 3
ENG 30		
ENG 30		
ENG 30	0 Old English	. 3
ENG 40	0 Studies in Linguistics: Variable Topics*	. 3
Subtotal.		.12
*may be	peated for credit under different topics	
	plinary elective courses. Any two courses chosen in consultation with and approx mental advisor.	red
by depar	mental advisor.	
	mental advisor. 0 Cross-Cultural Communication	
by depar ANT 23	mental advisor. 0 Cross-Cultural Communication	. 3
by depart ANT 23	mental advisor. 0 Cross-Cultural Communication	. 3
by depart ANT 23 SPE 33	mental advisor. 0 Cross-Cultural Communication	. 3
by depart ANT 23 SPE 33	mental advisor. 0 Cross-Cultural Communication	. 3
by depart ANT 23 SPE 33 SPE 33	mental advisor. 0 Cross-Cultural Communication	. 3
by depart ANT 23 SPE 33 SPE 33 COM 33	mental advisor. 0 Cross-Cultural Communication 0 Psychology of Communication 0 Cultural Influences on Communication 0 International Technical Communications. 0 Studies in Linguistics: Variable Topics*	. 3
by department of the state of t	mental advisor. 0 Cross-Cultural Communication 0 Psychology of Communication 0 Cultural Influences on Communication 0 International Technical Communications 0 Studies in Linguistics: Variable Topics* 0 Internship*	. 3
By depart ANT 22 SPE 33 SPE 33 COM 33 ENG 40 ENG 40	mental advisor. 0 Cross-Cultural Communication 0 Psychology of Communication 0 Cultural Influences on Communication 0 International Technical Communications 0 Studies in Linguistics: Variable Topics* 0 Internship* 0 French Phonetics: Theory and Practice	. 3
SPE 3: COM 3: ENG 44: FRE 3:	mental advisor. 0 Cross-Cultural Communication 0 Psychology of Communication 0 Cultural Influences on Communication 0 International Technical Communications 0 Studies in Linguistics: Variable Topics* 0 Internship* 0 French Phonetics: Theory and Practice 0 German Phonetics: Theory and Practice	. 3

	PHI	1110	Language, Logic, and Persuasion
	PHI	1440	Symbolic Logic
	PHI	3120	Philosophy of Language
	PSY	4570	Cognitive Psychology
	SPA	3150	Spanish Phonetics: Theory and Practice
	SPA	4310	History of the Spanish Language
	SPE	2890	Language Acquisition
	SPE	3540	Phonetics and Language Sample Analysis
	SPE	3740	Psychology of Communication
	SPE/V	VMS 27	70 Gender and Communication
	Subto	tal	6
	*may	be repea	ted for credit under different topics
	**mu	st be set	up with Linguistics and Language advisor and approved by curriculum chair and
			aair in advance.
	Total .	Semestei	Hours Required
Lan	guag	e Conc	centration
			ORE COURSES
	ENG	2010	The Nature of Language
	depar	tmenta	the following six courses, chosen in consultation and with and approved by a l advisor.
		3020	History of the English Language
		3030	Semantics
		3040	Morphology and Syntax
	ENG	3050	Language and Society
	ENG	3060	Modern Language Theory
		3070	Old English
		4010	Studies in Linguistics: Variable Topics*
			9
	*may	be repea	ted for credit under different topics
	sultat	ion wit	e semesters of a single language for a total of at least 13 credits, chosen in conh and approved by departmental advisors, in the case of a transfer student, at lesters must include grammar.
	FRE		nd 1020 Elementary French I and II
	FRE	2110 -or-	French Reading and Conversation
	GER	1010 a	nd 1020 Elementary German I and II
	GER	2110	German Reading and Comprehension
		-or-	
	GER	2310 -or-	German Vocabulary Building and Grammar
	SPA		nd 1020 Elementary Spanish I and II
	SPA	2110	Intermediate Spanish
		-or-	
	SPA	2110	Spanish Grammar and Composition I
			Hours Required

ENVIRONMENTAL SCIENCE

Department of Earth and Atmospheric Sciences

The environmental science major is an extended major (no minor required) designed as an entry-level major for MSCD students as well as for students transferring as juniors from the community colleges

with backgrounds in water quality. In addition, students may choose from five options (concentrations) depending on their areas of interest. The multidisciplinary concentration provides students with a broadbased environmental science background, whereas the concentrations in water quality, environmental chemistry, and ecological restoration are more specialized. The environmental science option for secondary science teacher licensure is the remaining concentration available to students. All concentrations, except for environmental science for teacher licensure, require a unified core. Interested students should go to the Department of Earth and Atmospheric Sciences (Science 231) to be assigned an advisor and to pick up advising and career option sheets. Students interested in teacher licensure in secondary science should consult an advisor in environmental science and see the teacher education portion of this *Catalog*.

Environmental Science Major for Bachelor of Science

Core Requirements for Environmental Science Concentrations (except for Secondary Science Teacher Licensure)

COURSES	SEMESTER HOURS
BIO 1080	General Introduction to Biology
BIO 1090	General Introduction to Biology General Introduction to Biology Laboratory
CET 3320	Environmental Impact Statements
CE1 3320 COM 3670	Writing for the Environmental Industry
COM 3670	,
ENV 1200	(Prerequisite: COM 2610 or permission of instructor) 3 Introduction to Environmental Science 3
2111	Environmental Policy and Planning
GEG 1220	Map Use
MTH 1210	Introduction to Statistics
MTH 3240	Environmental Statistics
	t select one of the following Senior Experience courses:
BIO 4510	Microbial Ecology
BIO 4540	Plant Ecology
CHE 4950	Senior Experience in Chemistry
ENV 4960	Global Environmental Challenges
ENV 4970	Environmental Field Studies
Subtotal	3
Students mus	t select one of the following Internships (minimum 3 credit hours):
BIO 4990	Internship in Biology
CHE 4650	Chemistry Work Experience/Cooperative Education
GEG 4950	Internship in Land Use
GEL 4950	Internship in Geology
Subtotal	3
Total Core Rea	quirements
Required Gen	eral Studies Courses
MTH 1110	College Algebra (General Studies-Level I-Mathematics)
CHE 1800	General Chemistry I (General Studies-Level II-Natural Science)
GEL 1010	General Geology (General Studies-Level II-Natural Science)
Total General	Studies courses (see College Addendum: General College Requirements)
	,

 $(Students\ who\ have\ not\ had\ a\ computer\ course\ will\ be\ required\ to\ take\ CSS\ 1010/CIS\ 1010.)$

Multidisciplinary Concentration

Students are required to select courses in Biology, Chemistry, Geography, Geology, Mathematics, and Meteorology, as well as elective courses in consultation with a discipline advisor totaling a minimum of 42 hours.

Enviro	onmenta	dl Science Core
Biolog	gy (9 ho	urs minimum)
COUR	RSES	
BIO	1081	General Biology II (must take with BIO 1091)

BIO	1091	General Biology II Laboratory (must take with BIO 1081)
BIO	2100	General Botany.
BIO	2400	General Microbiology
BIO	3200	Vertebrate Zoology
	-or-	
BIO	3260	Invertebrate Zoology
BIO	3140	Plant Physiology
BIO	3180	Vascular Plant Taxonomy
BIO	3360	Animal Physiology
BIO	3550	Urban Ecology
BIO	4450	Pathogenic Microbiology
BIO	4510	Microbial Ecology
BIO	4540	Plant Ecology
BIO	4550	Animal Ecology
		Tillinia Leology
	•	hours minimum)
COUF	RSES	
CHE	1810	General Chemistry II (required)
CHE	1850	General Chemistry Laboratory (recommended)
CHE	2100	Introduction to Organic and Biological Chemistry
CHE	3050	Environmental Chemistry
CHE	3100	Organic Chemistry I
CHE	3110	Organic Chemistry II
CHE	3120	Organic Chemistry Laboratory I
CHE	3130	Organic Chemistry Laboratory II
CHE	3890	Science and Public Policy: Variable Topics1-3
Subto	tal	
Coor	anhr (0	hours minimum)
COUF		SEMESTER HOURS
	1400	World Resources
ENV	3400	Water Resources.
ENV		Population, Resources, and Land Use
ENV	4410	Water Law.
ENV	4420	Wetlands
ENV	4430	Habitat Planning
GEG	4888	Workshop on Environmental Issues (advisor approved)
GEG	4900	Environmental Seminar (advisor approved)
GIS	2250	Introduction to Geographic Information Systems
GIS	4840	Remote Sensing
GIS	4850	Advanced Geographic Information Systems
GIS	4860	Applications of ARC/INFO to Natural Resources Management
Subto	tal	
Geolo	gy (9 ho	urs minimum)
COUF	· .	
ENV		Advanced Geologic and Environmental Hazards–Denver and Vicinity
ENV		Environmental Geology (required)
	4000	
ENV	4010	Environmental Hazards and Planning.
GEL		Advanced L-eomorphology
OF	3120	Advanced Geomorphology
GEL	3150	Hydrogeology
GEL	3150 3420	Hydrogeology. Soil Resources. 4
GEL GEL	3150 3420 3440	Hydrogeology
GEL	3150 3420 3440 4150	Hydrogeology. Soil Resources. 4

		`	3 hours minimum)
	COUR		
	MTH		College Trigonometry
	MTH		Precalculus Mathematics
	MTH		Calculus I (recommended for students considering graduate school) 4
	MTH		Calculus II
			3 hours minimum)
	COUR	SES	
	MTR		Weather and Climate
	MTR		Introduction to Atmospheric Science (recommended) 4
	MTR		Air Pollution
	MTR		Synoptic Meteorology
			3
			ciplinary Courses42
			es
			ctives
	Total f	or Multi	disciplinary Concentration120
		••	
Wa	ter Qu	iality (Concentration
	COUR	SES	
	Enviro	nmenta	1 Science Core
	Additio	onal Req	uired Courses:
	CHE	1810	General Chemistry II
	CHE	1850	General Chemistry Laboratory
	CHE	3050	Environmental Chemistry
	CHE	3100	Organic Chemistry I
	CHE	3120	Organic Chemistry Laboratory I
	GEL	3150	Hydrogeology
	GEL	4150	Hydrology
	MTR	2400	Introduction to Atmospheric Science
	OSHA	-	Environmental Health and Safety (OSHA 40-hour course)*
	*Offere	ed as con	ntinuing education courses at Front Range and Red Rocks Community Colleges
	Red R	ocks Co	ommunity College Required Courses
	COUR		SEMESTER HOURS
	WQM	100	Introduction to Water Quality Management
	WQM		Basic Water Quality Analysis
	WQM		Environmental Sampling and Volume Measurement
	WQM		Biological and Bacteriological Water Quality Analysis 4
	-		14
	C -14	10 1	f
			rs from the following courses
	BIO	2400	General Microbiology
	BIO	3550	Urban Ecology
	BIO	4510	Microbial Ecology
	CET	3330	Environmental Technology Processes
	ENV	3400	Water Resources
	GEL	3420	Soil Resources. 4
	MTR		Air Pollution. 3 Specific Coloulations for Water Quality Management (RRCC)
	WQM		Specific Calculations for Water Quality Management (RRCC)
	WQM Subtat		Hydraulics for Water Quality Management (RRCC)
			Solutive Concentration

ECO	iogica	ai Kesto	oration Concentration
	COUF		SEMESTER HOURS Il Science Core. 32
	Additional Required Courses:		
	CHE	1810	General Chemistry II
	CHE	1850	General Chemistry Laboratory
	ECO	3450	Environmental Economics
	ENV	3540	Advanced Geologic and Environmental Hazards–Denver and Vicinity
	ENV	4000	Environmental Geology
	ENV	4010	Environmental Hazards and Planning
	ENV	49XX	Environmental Seminar (advisor approved)
	GEL	3420	Soil Resources
	PSC	3230	Environmental Politics
		ves (selec	ct at least 25 hours from the following list):
	BIO	1081	General Biology II (must take with BIO 1091)
	BIO	1091	General Biology II Laboratory (must take with BIO 1081)
	BIO	2100	General Botany. 5
	BIO	2400	General Microbiology
	BIO	3200	Vertebrate Zoology
		-or-	
	BIO	3260	Invertebrate Zoology
	BIO	3140	Plant Physiology
	BIO	3180	Vascular Plant Taxonomy
	BIO	3360	Animal Physiology
	BIO	3550	Urban Ecology
	BIO	4510	Microbial Ecology 4
	BIO	4540	Plant Ecology
	GEG/	GEL	Topics courses (advisor approved)2–3
			es
	Total j	for Ecolog	gical Restoration Concentration
Env	ironr	nental	Chemistry Concentration
	COUF	RSES	
			Science Core
		ional Red	quired Courses:
	BIO	2400	General Microbiology
	BIO	4510	Microbial Ecology
	CHE	1810	General Chemistry II
	CHE	1850	General Chemistry Laboratory
	CHE	3000	Analytical Chemistry
	CHE	3010	Analytical Chemistry Laboratory
	CHE	3050	Environmental Chemistry
	CHE	3100	Organic Chemistry I
	CHE	3120	Organic Chemistry Laboratory I
	ENV	4000	Environmental Geology
	GEL	3420	Soil Resources
		3100	Air Pollution
	OSHA		Environmental Health and Safety (OSHA 40-hour course)
			d as continuing education courses at Front Range and Red Rocks Community Colleges)
			42
			es 36
	Electiv		10
	Total j	for Envir	onmental Chemistry Concentration120

Environmental Science Major with Teacher Licensure, page 346.

Environmental Studies Minor

	REQU	IRED CO	OURSE SEMESTER HOURS
	ENV	49XX	Environmental Seminar (advisor approved)
	Select	6 hours	from the following list:
	BIO	1010	Ecology for Non-Majors
	BIO	1080	General Introduction to Biology
	BIO	1090	General Introduction to Biology Laboratory
	CHE	1010	Chemistry and Society
	CHE	1800	General Chemistry I
	ENV	1200	Introduction to Environmental Science
	Subtot	al	6
	Select	6 hours	from the following list:
	ECO	3450	Environmental Economics
	HIS	3880	American Environmental History
	PSC	316B	Readings in Public Administration 1
	PSC	3230	Environmental Politics
	PSY	3550	Environmental Psychology
	Subtot	al	6
	Select	6 hours	of electives (including any courses listed above or below):
	BIO	3550	Urban Ecology
	CET	3320	Environmental Impact Statements
	CHE	3890	Science and Public Policy: Variable Topics1-3
	COM	3660	Variable Topics in Industrial and Technical Communications
	ENV	1400	World Resources
	ENV	3400	Water Resources
	ENV	4200	Environmental Policy and Planning
	MTR	3100	Air Pollution
	XXX	XXXX	Any environmental topics course (advisor approved)
	Subtot	al	6
	Total f	or Envir	onmental Studies Minor
	- A	N TITL	NI O CIV DD C CD A MC
Gl	LKO	NIC	DLOGY PROGRAMS
Seve	ral opt	ions cur	rently exist for students interested in Gerontology. These include the following:
	• Gero	ontology	Minor in the Department of Health Professions page 245
			Major via the Individualized Degree Program
			elopment major with Applied Track Gerontology
			in the Department of Psychology
	• Soci	al Work	Major with Aging Concentration in the Department
			of Social Work
	• Soci	ology M	ajor with Gerontology Concentration in the Department of

HISTORY DEPARTMENT

History Major for Bachelor of Arts

The History major must choose between a General Concentration and a Secondary Education Concentration. The General Concentration requires the completion of a minor in another discipline in order to

Anthropology, Sociology and Behavioral Sciences. page 210

graduate. The Secondary Education Concentration is intended for individuals who are in the Secondary Education Social Studies Licensure Program. These individuals are required to take other specific courses listed under Teacher Education in this Catalog. Both concentrations within the major require a minimum of 42 semester hours including 15 hours of core courses and an additional 27 hours in courses primarily selected from three different categories. All students should check with a departmental advisor in order to make a proper selection of courses.

CORE COURSESSEMESTER HOURS					
HIS	1010	Western Civilization to 1603			
	-or-				
HIS	1030	World History to 1500			
HIS	1020	Western Civilization since 1603			
	-or-				
HIS	1040	World History since 1500			
HIS	1210	American History to 1865			
HIS	1220	American History since 1865			
HIS	4820	Senior Seminar			
Subto	<i>Subtotal</i>				

In addition to the required courses (15 hours) students also need to take at least three courses (9 hours) from Category I, at least two courses (6 hours) from Category II, and at least two courses (6 hours) from Category III. The remaining two courses (6 hours) may be taken from any of these three categories, or they may be selected from among any of the other courses offered by the History Department. All history majors must take at least one course devoted to world history, Latin American history, Asian history, or African history. Students should see an advisor in the History Department for a list of courses that meet this requirement

Category I: American History Chronological Sequence (select at least three courses)			
HIS	3410	American Colonial History	
HIS	3430	American Revolution and Early National Period, 1763-1848	
HIS	3520	Civil War and Reconstruction	
HIS	3540	Emergence of Modern US, 1877-1920	
HIS	3640	US World War I through World War II	
HIS	3660	Recent US, 1945-1990s	
Subto	otal	9	
Category 1	I: Euror	bean History Chronological Sequence (select at least two courses)	
HIS	3031	Ancient Greece	
HIS	3060	Rome and the Caesars	
HIS	3120	Medieval History	
HIS	3140	Renaissance and Reformation	
HIS	3200	Early Modern Europe, 1648-1789	
HIS	3230	Nineteenth Century Europe	
HIS	3260	Twentieth Century Europe, 1914-2000.	
	otal	6	
Category	III. Enr	ichment Courses (select at least two courses)	
HIS	1110	Colorado History I	
HIS	1250	China, Japan, Korea since 1800.	
HIS	1650	•	
HIS	1920	Women in US History	
HIS	1920	Survey of African History	
	3090		
HIS		Native Americans in American History	
HIS	3210	French Revolution and Napoleon	
HIS	3240	Imperial Russia	
HIS	3280	Russia since 1917	
HIS	3290	Nazi Germany	
HIS	3310	England to 1714 3	

HIS	3320	England since 1714
HIS	3570	African American History I
HIS	3580	African American History II
HIS	3590	American Immigration History
HIS	3700	Modern China
HIS	3740	Modern Japan
HIS	3770	World of Islam
HIS	3830	The Mexican Revolution
Subtote		
Core courses		
Category I		9
Category II		
Category III		
Electiv		6
Total		

Grade Average in History

Students majoring in history must maintain at least a 2.0 average in their history courses.

Secondary Education Concentration

The Secondary Education Concentration is intended for individuals who are in the Secondary Education Social Studies Licensure Program. These individuals are required to take other specific courses listed under Teacher Education in this Catalog.

CORE COURSES				
HIS	1010	Western Civilization to 1603		
	-or-			
HIS	1030	World History to 1500		
HIS	1040	World History since 1500		
HIS	1210	American History to 1865		
HIS	1220	American History since 1865		
HIS	4010	Methods of Teaching Social Science		
Subtotal				

In addition to the core courses (15 hours) students also need to take the three courses listed in Category I (9 hours), at least two courses (6 hours) from Category II, and at least three courses (6 hours) from Category III. The remaining elective course (3 hours) may be taken from either Category II or III, or it may be selected from among any of the other courses offered by the History Department.

Category I: American History Chronological Sequence			
HIS	3430	American Revolution and Early National Period, 1763-1848	
HIS	3520	Civil War and Reconstruction	
HIS	3660	Recent US, 1945-1990s	
Subt	otal	9	
Category	II: Europ	bean History Chronological Sequence (select at least two courses)	
HIS	3031	Ancient Greece	
HIS	3060	Rome and the Caesars	
HIS	3120	Medieval History	
HIS	3140	Renaissance and Reformation	
HIS	3200	Early Modern Europe, 1648-1789	
HIS	3230	Nineteenth Century Europe	
HIS	3260	Twentieth Century Europe, 1914-2000	
Subt	otal	6	
Category III: Enrichment Courses (select at least three courses)			
HIS	1110	Colorado History I	
HIS	1250	China, Japan, Korea since 1800	

HIS	1650	Women in US History	3
HIS	1920	History of the Chicana/o in the Southwest: 1810 to Present	3
HIS	1940	Survey of African History	3
HIS	3090	Native Americans in American History 3	3
HIS	3210	French Revolution and Napoleon	3
HIS	3240	Imperial Russia	3
HIS	3280	Russia since 1917	3
HIS	3290	Nazi Germany 3	3
HIS	3310	England to 1714 3	3
HIS	3320	England since 1714	3
HIS	3410	American Colonial History	3
HIS	3540	Emergence of Modern US, 1877-1920	3
HIS	3570	African American History I	3
HIS	3580	African American History II	3
HIS	3590	American Immigration History	3
HIS	3640	US World War I through World War II	
HIS	3700	Modern China	3
HIS	3740	Modern Japan	3
HIS	3770	World of Islam	3
HIS	3830	The Mexican Revolution	
Subto	tal)
Core o	courses		5
Catego	ory I	9)
Catego	ory II	6	ó
Catego	ory III	9)
Electiv	ve		3
Total.			2

Grade Average

Students majoring in history must maintain at least a 2.0 average in their history courses.

Minor in History

There are three different concentrations available to students seeking a history minor: regular history concentration, American West history concentration, 20th-century studies history concentration. All three require HIS 1220, which will also count toward the College's general studies requirements.

Regular History Concentration

REQUIRED COURSESSEMESTER HOURS				
HIS	1010	Western Civilization to 1603		
	-or-			
HIS	1030	World History to 1500		
HIS	1020	Western Civilization since 1603		
	-or-			
HIS	1040	World History since 1500		
HIS	1210	American History to 1865		
HIS	1220	American History since 1865		
Total				

Electives

A minimum of 9 additional semester hours in history is required. The hours must be upperdivision and should be selected in consultation with a departmental advisor. No more than 2 semester hours in HIS 3890 readings courses may be counted toward the minor without prior written approval from the department.

American West History Concentration

REQUIRED COURSES				
HIS	1100	American West		
HIS	1110	Colorado History I		
HIS	1210	American History to 1865		
HIS	1220	American History since 1865		
Total.				

Electives

A minimum of 9 additional history semester hours treating the American West is required, all of which must be upper-division.

Twentieth-Century Studies History Concentration

REQUIRED COURSESSEMESTER HOUR				
HIS	1220	American History since 1865		
HIS	1040	World History since 1500		
Total				

Elective

A minimum of 15 additional hours treating 20th-century history is required, 9 of which must be upper-division.

Minor in Interdisciplinary Legal Studies

Pre-law Courses

Several history courses are of particular importance to legal studies. These include HIS 1210, HIS 1220, and HIS 3680. Students interested in prelaw courses are urged to contact the department advisor.

Minor

The interdisciplinary legal studies minor is designed to show students how the various disciplines in the humanities and social sciences treat questions of law and justice. The interdisciplinary legal studies minor is not a prelaw preparatory program or paralegal training. Its goal is to cross disciplines so that students can understand how the humanities and social sciences illuminate the principles, practices, and policies of the law.

REQUIRED	COURSESSEMESTER HOURS
CJC 2000	Introduction to Legal Studies
ENG 3700	Literature and the Law
HIS 3680	The Court in Crisis
PHI 3430	Philosophy of Law
PSC 3120	
SOC 3550	Sociology of Law
XXX XXXX	Seminar in Legal Topics (interdisciplinary—team-taught course)
Subtotal	
	ill select one law-related course from the courses listed below or approved by the inary legal studies minor advisor:
CJC 2100	Substantive Criminal Law
MGT 2210	Legal Environment of Business I
MGT 3220	
SOC 3500	Criminology
WMS 3310	Women and the Law
Total	

HOLISTIC HEALTH AND WELLNESS

Department of Health Professions

Holistic Health and Wellness Education Multi-Disciplinary Minor

The holistic health and wellness education multi-disciplinary minor offers an area of concentration 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 is designed to complement a major chosen by a student that is relevant to the student's career goals. For additional information, please contact the Health Professions Department at 303-556-3130, South Classroom 226.

The minor comprises 21 hours of study:

REQU	IRED CO	OURSESSEMESTER HOUR	5
HES	1050	Dynamics of Health	3
HES	2750	Introduction to Holistic Health	3
HPS	1640	Physical Fitness Techniques and Programs	2
HSP	3750	Holistic Health and High-Level Wellness	4
NUT	2040	Introduction to Nutrition	3
Appro	ved elec	tives*	3
Appro	ved ethi	cs course	3
Total.			1

To meet the General Studies multicultural requirement, ANT 3480 *Cultural Diversity in Health and Ill-ness*, is highly recommended.

To meet the General Studies natural sciences requirement, a course in human biology is highly recommended.

HUMAN DEVELOPMENT

Department of Psychology

This interdisciplinary major in human development will provide students with a focus on the entire life span and in-depth knowledge about theory, research, and application in human development. Students will participate in field experience to make connections between theory, research, and practice. The major has five separate tracks, serving the needs of students seeking early childhood education teacher licensure (early childhood education track) or elementry education licensure (elementary education track), students interested in gerontology or planning other careers working with children and adults (applied track and gerontology track), and students who wish to pursue graduate study (graduate school track).

Upon completion of a degree in Human Development at the Metropolitan State College of Denver, students will be able to:

- Demonstrate an understanding of the major theories, basic principles, current issues, and emerging
 concepts in the field. Students will be able to demonstrate knowledge of biological, cognitive, social,
 emotional, and contextual aspects of human development and the interrelations among them.
- Demonstrate the ability to think critically about human development, including being able to identify similarities, differences, and connections among human development theories and perspectives.
- Demonstrate knowledge of the processes of cognitive development, including the development of logical and abstract thought, memory, mathematical understanding, scientific thinking, and literacy skills, and how those processes change over time.

^{*}Students in the minor who do not have a research course required in their major are required to use the elective hours to obtain research skills. Students in the minor who do not have an internship required in their major are encouraged to arrange a practical experience through HES 3980. Courses should be selected in consultation with a faculty advisor.

- Demonstrate the ability to relate theories and methodologies from human development to problems and issues in other disciplines, such as biology, sociology, and nutrition and health.
- Demonstrate the ability to communicate knowledge of the field of human development both orally and in writing, the latter following the American Psychological Association guidelines.
- Demonstrate the ability to conduct independently a comprehensive literature review that critically evaluates an area of research in human development. Students will also be able to demonstrate an understanding of and the ability to apply knowledge of research methodology and statistics to the interpretation and evaluation of research.
- Understand the ways in which culture and society (both national and global) impact development, including the roles of the family, the peer group, school, and the media. Students will also be able to discuss the roles of ethnicity, race, and gender and issues in social relationships such as aggression and cooperation.
- Prepare for successful careers in their chosen concentration, as follows:
 - Graduate School Track: Students take courses in statistics and research methods to help them
 prepare to enter a graduate program in human development, psychology, or a related field.
 - Applied Track: Students take courses that are geared toward working with diverse populations of children and families to prepare them for working with social service agencies.
 - Gerontology Track: Students' coursework is focused on understanding various issues related to aging to prepare them for careers in the gerontology field.
 - Early Childhood Education and Elementary Education: Students' coursework prepares them to work with children as a classroom teacher.

Human Development Major for Bachelor of Arts

REQU	TRED C	OMMON CORE	. SEI	ME	STI	ΞR	H(JU	RS
BIO	1000	Human Biology for Non-Majors ^a							. 3
PSY	1001	Introductory Psychology					٠.		. 3
PSY	3280	Developmental Research Methods							. 3
PSY	3340	Cognitive Development and Learning					٠.		. 3
PSY	4960	Senior Thesis in Human Development ^b					٠.		. 3
SOC	1010	Introduction to Sociology ^a							. 3
Subto	tal								.18

^a Students mat not count BIO 1000 and SOC 1010 for both the HD major and General Studies Level II. If these classes are counted toward General Stdies II, two additional courses must be selected from the list of electives under the Applied Track or from courses in the required distribution, not already used.

Required Distribution:

In addition, students must choose one course from each category. NOTE: Each student must also select a track, and in the early childhood education, elementary education, and gerontology tracks, specific courses from the following categories are required (see tracks below).

Developmental Foundations

PSY	1800	Developmental Educational Psychology
PSY	3250	Child Psychology
PSY	2270	Death and Dying (SOC 3100)
Devel	opment	al Breadth
PSY	3240	Infancy
PSY	3260	Psychology of Adolescence
PSY	3270	Adulthood and Aging
Healtl	h Issues	
HES	3070	Parental Health Care Issues
NUT	2040	Introduction to Nutrition

^b Meets college senior experience requirements.

Social Influences				
SOC 3410	The Family in Transition			
SOC 1040	Introduction to Social Gerontology			
SWK 2100	Introduction to Family Social Work			
Cultural Con	Cultural Context			
ECE 4360	Cultural Influence on the Socialization of Children			
LES 2330	Advocacy, Leisure, and the Aging Adult			
SOC 3400	Childhood and Adolescent Socialization			
Subtotal				
Additional Re	quirements (dependent upon the track)			
Total for the N	<i>Major</i>			

Students must choose one of the following five tracks. All students must have 15 upper-division hours in the major, and transfer students must complete at least 15 hours of the major at MSCD.

Graduate School Track

REQU	TRED C	OURSESSEMESTER HOURS	
Comn	Common Core		
Requir	ed Distr	ibution	
PSY	2310	Introduction to Statistics for Social and Behavioral Sciences ^a	
PSY	2320	Inferential Statistics	
PSY	3310	Psychological Research Methods I	
Total j	^f or Majo	r with Graduate School Track42	

^aStudents who have taken MTH 1210 or its equivalent in transfer before deciding to major in human development may substitute it for PSY 2310. However, MTH 1210 cannot be used both in the major and to satisfy the Level I General Studies mathematics requirement.

Applied Track

REQUIRED COURSES	SEMESTER HOURS
Common Core	
Required Distribution	

In addition, students must take nine semester hours from the following list or from courses in the required distribution list not already used. Students may not use the same courses to count for the major and for the minor or General Studies.

COURSES	
AAS 3550	The Black Family
BIO 3530	Physiology of Aging for Non-Biology Majors (HES 3810)
CHS 3210	The Chicano Family
ECE 3340	Administration of Early Childhood Programs
EDU 4310	Parents as Partners in Education
HPS 4500	Motor Learning and Development
HSP 1010	Introduction to Human Services and Community Resources
NUT 3100	Nutrition and Aging
PAR 2050	Introduction to Parent Education
PAR 3070	Working with the Contemporary Family
PSY 2310	Introduction to Statistics for Social and Behavioral Sciences ^a
PSY 3400	Psychology of Exceptional Children
SOC 3040	Contemporary Issues in Gerontology
SOC 3220	Race, Gender and Ethnic Groups
SOC 3420	Education in a Changing Society
SPE 2890	Language Acquisition
SWK 3030	Social Work with the Aging
SWK 3100	Child Welfare and the Law

SWK	3200	Social Work with Urban Families	. 3
SWK	3300	Social Work with Parents with Developmental Disabilities	. 1
Subtot	tal		.9
Total f	or Majo	r with Applied Track	45

^aStudents who have taken MTH 1210 or its equivalent in transfer before deciding to major in human development may substitute it for PSY 2310. However, MTH 1210 cannot be used both in the major and to satisfy the Level I General Studies mathematics requirement.

Students who are interested in a particular concentration within the applied track (e.g., a particular age emphasis, cultural or family issues, problems of development) should see a human development advisor in the Department of Psychology for course selection. It is permissible to select all electives from the same department.

Applied Track-Gerontology

REQUIRE Common	D COURSES. SEMESTER HOURS Core
Required	Distribution as follows:
Developr	nental Foundations
PSY 22	70 Death and Dying
-0	
SOC 31	00 Death and Dying
Developr	nental Breadth
PSY 32	70 Adulthood and Aging
Health Is	sues
NUT 20	40 Introduction to Nutrition
Social Inf	luences
SOC 10	40 Introduction to Social Gerontology
Cultural	Context
	30 Advocacy, Leisure, and the Aging Adult
Subtotal .	

In addition, students must take nine semester hours from the following list of courses. Students may not use the same courses to count for the major and for the minor or for General Studies. Students in the Applied Track—Gerontology may not have a gerontology minor.

COURSES	
BIO 3530	Physiology of Aging for Non-Biology Majors (HES 3810)
PSY 2310	Introduction to Statistics for Social and Behavioral Sciences ^a
NUT 3100	Nutrition and Aging
-or-	
SOC 3040	Contemporary Issues in Gerontology
-or-	
SWK 3030	Social Work with the Aging3-4
Total for Majo	or with Applied Track–Gerontology

*Students who have taken MTH 1210 or its equivalent in transfer before deciding to major in human development may substitute it for PSY 2310. However, MTH 1210 cannot be used both in the major and to satisfy the Level I General Studies mathematics requirement.

Early Childhood Education Track

REQUIRED COURSES. SEMESTER HOURS Common Core		
Developmental Foundations		
PSY 1800 Developmental Educational Psychology		
Developmental Breadth		
PSY 3240 Infancy		
Health Issues		
HES 3070 Parental Health Care Issues		
-or-		
NUT 2040 Introduction to Nutrition		
Social Influences		
SOC 3410 The Family in Transition		
Cultural Context		
ECE 4360 Cultural Influence on the Socialization of Children ^a		
Subtotal		
^a Meets college multicultural requirement.		
In addition, students must take 9-10 hours from the following list. Students may not use		
the same courses to count for the major and for the minor or General Studies. ECE 3340 Administration of Early Childhood Programs		
EDU 4310 Parents as Partners in Education		
HPS 4500 Motor Learning and Development		
PSY 2310 Introduction to Statistics for Social and Behavioral Sciences ^a		
PSY 3400 Psychology of Exceptional Children		
SPE 2890 Language Acquisition		
Total for Major with Elementary Education Track		
"Students who have taken MTH 1210 or its equivalent in transfer before deciding to major in human development may substitute it for PSY 2310. However, MTH 1210 cannot be used both in the major and to satisfy the Level I General Studies mathematics requirement.		

Students pursuing teacher licensure should consult with an advisor in the Teacher Education Department for the current licensure requirements of the Colorado Department of Education.

Elementary Education Track

REQUIRED C	OURSES SEMESTER HOURS					
REQUIRED COURSES						
Required Dist	Required Distribution as follows:					
Development	al Foundations					
PSY 1800	Developmental Educational Psychology					
Development	al Breadth					
PSY 3250	Child Psychology					
Health Issues						
HES 3070	Parental Health Care Issues					
-or-						
NUT 2040	Introduction to Nutrition					
Social Influences						
SOC 3410	The Family in Transition					

Cultural Context

EDU 3	100	Social Foundations and Multicultural Education $^{\rm b}$. 4
The foll	owing	three courses are also required:	
PSY 2	310	Introduction to Statistics for Social and Behavioral Science ^a	. 3
SPE 2	890	Language Acquisition	. 3
HPS 4	500	Motor Learning and Development	. 3
Total for	Major	with Elementary Education Track	-43

"Students who have taken MTH 1210 or its equivalent in transfer before deciding to major in human development may substitute it for PSY 2310. However, MTH 1210 cannot be used both in the major and to satisfy the Level I General Studies mathematics requirement.

Students pursuing teacher licensure should consult with an advisor in the Teacher Education Department for the current licensure requirements of the Colorado Department of Education.

INTERDISCIPLINARY LEGAL STUDIES MINOR, SEE PAGE 147

For Prelaw advising see Political Science Department, for the Interdisciplinary Legal Studies Minor see the History Department.

JOURNALISM PROGRAM

Department of Communication Arts and Sciences

The Journalism program prepares students for careers in news and information media by providing them with a sound education in the basics of journalism and/or public relations. The program has one of the strongest journalism teaching staffs in the state. All full-time and part-time faculty have worked in the journalism and/or public relations fields.

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 JRN 1010.

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.

To make journalism graduates more marketable in our multicultural society, journalism majors are required to take four semesters of one foreign language or prove their proficiency in a language other than English.

The Journalism Department offers a major with three concentrations—news/editorial, photojournalism and public relations—and minors in journalism, photojournalism and public relations.

Journalism Major for Bachelor of Arts

Core courses required for all concentrations in the Journalism major:

COURSES		
JRN	1010	Introduction to Journalism and Mass Media
JRN	1200	Beginning Editing
JRN	2210	Beginning Layout and Design
JRN	4500	Ethical and Legal Issues in Journalism
Subto	tal	

^bMay use an approved substitute.

News/Editorial Concentration

COUR	SES	SEMESTER HOUR	
Journa	alism Co	re	2
Requi	red Cour	ses:	
JRN	1100	Beginning Reporting	3
JRN	2100	Intermediate Reporting	3
JRN	3200	Intermediate Editing	3
JRN	3981	Cooperative Education: News/Editorial	3
(JRN 3	3981 ma	y be taken more than once with permission of the department chair)	
Subtot	al		2
Select	at least 1	2 hours:	
JRN	1600	Survey of Photojournalism	3
JRN	1700	Survey of Public Relations	3
JRN	2980	Cooperative Education	3
JRN	3100	Publication Practicum	3
JRN	3150	Contemporary Issues	3
JRN	3400	Feature Article Writing for Newspapers	3
JRN	3500	Topics in Journalism	1
JRN	3600	Photojournalism I	3
JRN	4100	Investigative Reporting	3
JRN	4210	Advanced Layout and Design	3
JRN	4400	Feature Article Writing for Magazines	3
JRN	4600	Photojournalism II	3
JRN	4890	Social Documentary	3
Subtot	al		2
Total.		3	36

Photojournalism Concentration

Students who major in Journalism with a Photojournalism concentration may **not** use the still media concentration of the Digital Media as their minor.

COUI	RSES					
Journ	Journalism Core. 12					
Requi	ired Cou	irses:				
ART	1271	Basic Photography Methods (or equivalent beginning photography course) 3				
JRN	1100	Beginning Reporting				
JRN	2100	Intermediate Reporting				
JRN	2600	Introduction to Photojournalism				
JRN	3600	Photojournalism I				
JRN	4600	Photojournalism II				
JRN	3982	Cooperative Education: Photojournalism				
(JRN	3982 m	ay be taken more than once with permission of the department chair)				
Subtotal						
Select	at least	3 hours:				
ART	1101	Two Dimensional Design				
ART	2671	Photography I				
ART	3271	Photography II: Black and White				
ART	3235	Video Art				
JRN	1700	Survey of Public Relations				
JRN	3100	Publication Practicum				
JRN	3150	Contemporary Issues				
JRN	3200	Intermediate Editing				
JRN	3400	Feature Article Writing for Newspapers				
JRN	3500	Topics in Journalism				
JRN	4210	Advanced Layout and Design				

RN 4890 Social Documentary 3 3 Subtotal	JRN	4400	Feature Article Writing for Magazines
Public Relations Concentration	JRN	4890	Social Documentary
Public Relations Concentration	Subto	tal	3
COURSES SEMESTER HOURS Journalism Core 12 Required Courses: 12 JRN 2700 Fundamentals of Public Relations 3 JRN 2700 Public Relations Writing 3 JRN 3700 Public Relations Writing 3 JRN 3983 Cooperative Education: Public Relations 3 JRN 4700 Public Relations Strategic Planning 3 JRN 4700 Public Relations Strategic Planning 3 SPE 3100 Business and Professional Speaking 3 SPE 3100 Business and Professional Speaking 3 SPE 3100 Business and Professional Speaking 3 SPE 3401 Television Production 3 Spe 4100 Techniques of Persuasion 3 Subtotal 27 Select at least 3 hours: 27 COM 2420 Basic Single Camera Video Production 3 COM 2420 Introduction to Technical Media 3 COM 2440 Presentation Graphics 3 COM 2450 Presentation Graphics 3	Total		36
Journalism Core Required Courses: RN 1110 Media Writing	Public R	elatior	ns Concentration
Journalism Core Required Courses: RN 1110 Media Writing	COU	RSES	SEMESTER HOURS
Required Courses: JRN 1110 Media Writing 3 JRN 2700 Fundamentals of Public Relations 3 JRN 3700 Public Relations Writing 3 JRN 3700 Public Relations Writing 3 JRN 3983 Cooperative Education: Public Relations 3 JRN 3983 May be taken more than once with permission of the department chair) JRN 4700 Public Relations Strategic Planning 3 MKT 3000 Principles of Marketing 3 SPE 3100 Business and Professional Speaking 3 SPE 3100 Business and Professional Speaking 3 SPE 3100 Techniques of Persuasion 3 SPE 4100 Techniques of Persuasion 3 Subtotal 27 Select at least 3 hours: 27 Select at least 3 hours: 27 Select at least 3 hours: 27 Select at least 3 Substitus 3 SPE 3450 Strategic Promotional Strategy 3 SPE 3450 Strategic Promotional Strategic 3 SPE 3450 Strategic Promotional Strategic 3 SPE 3450 Strategic Promotional Strategic 3 SPE 3450 St			
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SPE 1700 Communication Theory 3 SPE 2400 Introduction to Radio and Television Broadcasting 3 SPE 3130 Conference Leadership 3 SPE 3430 Radio-Television Announcing 3 SPE 3450 Broadcast Journalism: Radio 3 SPE 3480 Workshop in Radio Production 3 SPE 3740 Psychology of Communication 3 SPE 4450 Broadcast Journalism: Television 3 SPE 4480 Seminar Practicum in Broadcasting 3 Subtotal 3 Total 42 Journalism Minor			· ·
SPE 2400 Introduction to Radio and Television Broadcasting. 3 SPE 3130 Conference Leadership 3 SPE 3430 Radio-Television Announcing 3 SPE 3450 Broadcast Journalism: Radio 3 SPE 3480 Workshop in Radio Production 3 SPE 3740 Psychology of Communication 3 SPE 4450 Broadcast Journalism: Television 3 SPE 4480 Seminar Practicum in Broadcasting 3 Subtotal 3 Total 42 Journalism Minor			•
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SPE 3740 Psychology of Communication 3 SPE 4450 Broadcast Journalism: Television 3 SPE 4480 Seminar Practicum in Broadcasting 3 Subtotal 3 3 Total 42 Journalism Minor	SPE	3480	,
SPE 4450Broadcast Journalism: Television3SPE 4480Seminar Practicum in Broadcasting3Subtotal3Total42 Journalism Minor	SPE	3740	
SPE 4480 Seminar Practicum in Broadcasting. 3 Subtotal. 3 Total. 42 Journalism Minor	SPE	4450	, •
Subtotal		4480	
Journalism Minor	Subto	tal	· · · · · · · · · · · · · · · · · · ·
Journalism Minor	Total		
	Journa	lism l	Minor
Students who major in Journalism with a Photojournalism concentration may not use the still media concentration of the Digital Media as their minor.			jor in Journalism with a Photojournalism concentration may not use the still media he Digital Media as their minor.
COURSES SEMESTER HOURS	COLL	RSES	SEMESTER HOLIRS
JRN 1010 Introduction to Journalism and Mass Media			
JRN 1100 Beginning Reporting	-		
JRN 1200 Beginning Editing	-		
JRN 2100 Intermediate Reporting	-		

	JRN	3981	Cooperative Education: News/Editorial
	JRN	4500	Ethical and Legal Issues in Journalism
	Total.		18
Ph	otojo	ourna	alism Minor
	COUI	RSES	
	JRN	1010	Introduction to Journalism and Mass Media
	JRN	1100	Beginning Reporting
	JRN	1200	Beginning Editing 3
	JRN	2600	Introduction to Photojournalism
	JRN	3600	Photojournalism I
	JRN	3982	Cooperative Education: Photojournalism
	JRN	4500	Ethical and Legal Issues in Journalism
	Total.		
Pu	blic 1	Relat	ions Minor
		- 10100	
	COUI	RSES	
	JRN	1010	Introduction to Journalism and Mass Media
	JRN	1110	Media Writing
	JRN	1200	Beginning Editing
	JRN	2700	Fundamentals of Public Relations
	JRN	3700	Public Relations Writing 3
	JRN	3983	Cooperative Education: Public Relations
			(JRN 3983 may be taken more than once with permission of the department chair)
	JRN	4500	Ethical and Legal Issues in Journalism
	JRN	4700	Public Relations Strategic Planning
	Total.		

DIGITAL MEDIA MINOR, SEE PAGES 133 AND 239 OF THIS CATALOG.

LAND USE PROGRAM

Department of Earth and Atmospheric Sciences

The land use major is a 65 hour extended major that combines general planning courses with a focused area of study (concentration), including environment and resources, geographic information systems, geology, or urban land use planning, linked by the vital thread of land use management. Students will receive a bachelor of science degree except when their concentration is urban land use planning in which case the student will receive a bachelor of arts degree. The major equips students with a dynamic foundation for understanding issues and solving problems that confront the community and environment, making them highly competitive in the job market. The program is broad in scope and can be applied to a number of career objectives and graduate school programs. Opportunities exist in such areas as cartography, environment and resource management, environmental science, geographic information systems, geology, mining and mineral resources, planning, population analysis, recreational land use, remote sensing, residential and industrial development, transportation, and a variety of other interrelated fields. Because the land use degree is an extended major, it does not require a minor. Each student must have a department advisor and consult with his/her advisor regarding course work to avoid prerequisite problems.

The four concentration areas have a common 16-hour required core:

REQUIRED CORE SEMESTER HOURS				
GEG	1220	Map Use		
GEG	1610	Introduction to Planning		

	GEL GEG	1010 4950	General Geology
		-or-	
	GEL	4950	Internship in Geology
	GIS	2250	Introduction to Geographic Information Systems
		1210	Introduction to Statistics
	Requi	red Core	Total
Lai	nd II	se Ma	ajor for Bachelor of Science
La	iiu C	3C 1V16	Joi for Dachelor of Science
Env	ironr	nent a	nd Resources Concentration
			OURSESSEMESTER HOURS
	Requi	red Cor	e 16
	CET	3320	Environmental Impact Statements
	ENV	1200	Introduction to Environmental Science
	ENV	1400	World Resources
	ENV	3400	Water Resources
	ENV	4000	Environmental Geology
	ENV	4010	Environmental Hazards and Planning
	ENV	4200	Environmental Policy and Planning
	ENV	4430	Habitat Planning
	ENV	4960	Global Environmental Challenges (Senior Experience)
		-or-	
	ENV	4970	Environmental Field Studies (Senior Experience)
	GEL	3150	Hydrogeology
	GEL	3420	Soil Resources
	GEL	3440	Energy and Mineral Resources
		,	ect a minimum of 12 credit hours)
		3670	Writing for the Environmental Industry
		3450	Environmental Economics
	ENV	4410	Water Law
	ENV	4420	Wetlands
	GEG	3610	Principles of Land Use Planning
	GEL	3540	Advanced Geologic and Environmental Hazards–Denver and Vicinity 2
	GEL	4150	Hydrology
	GIS	4840	Remote Sensing (recommended)
	GIS	4850	Advanced Geographic Information Systems
	GIS	4860	Applications of ARC/INFO to Natural Resources Management (recommended) 3
	Total j	for majo	r65
Geo	ology	Conce	entration
	REOU	IRED C	OURSESSEMESTER HOURS
	-		e 16
	ENV	4000	Environmental Geology
	ENV	4010	Environmental Hazards and Planning
	ENV	4970	Environmental Field Studies (Senior Experience)
	GEL	1030	Historical Geology
	GEL	3050	Mineralogy and Petrology
	GEL	3060	Stratigraphy and Structure
	GEL	3120	Advanced Geomorphology 4
	GEL	3150	Hydrogeology
	GEL	3420	Soil Resources
	GFI	3440	Energy and Mineral Resources

	GEL	4150	Hydrology
	GIS	4860	Applications of ARC/INFO to Natural Resources Management
	Subtot	tal	
Electives (Select a minimum of 7 credit hours)			ct a minimum of 7 credit hours)
	ENV	1400	World Resources
	ENV	3400	Water Resources
	ENV	3540	Advanced Geologic and Environmental Hazards–Denver and Vicinity
	GEL	1020	Geology of Colorado
	GEL	1150	Oceanography 3
	GEL	3510	Advanced Geology of Red Rocks Park and Vicinity
	GEL	3520	Advanced Garden of the Gods–Front Range Geology
	GEL	3530	Advanced Geology of the Colorado Plateau
	GEL	3550	Advanced Geology of the Great Sand Dunes National Monument
	GEL	3560	Advanced Canoeing the Canyon Country
	GEL	3570	Advanced Geology of the Flattops Volcanic Wilderness Area
	GEL	3580	Advanced Geology of the Wheeler Geologic Area
	GEL	390X	Advanced Topics in Geology1-3
	GIS	1710	Terrestrial Navigation
	GIS	4850	Advanced Geographic Information Systems (recommended)
	Subtot	tal	
	Total f	for majoi	r
Geo	oranl	hic Inf	ormation Systems (GIS) Concentration
GCC			•
	REQU	TRED CO	OURSESSEMESTER HOURS
	Requi	red Core	2
	CIS	1010	Introduction to Computers
		-or-	
	CSS	1010	Introduction to Computers
	GEG	3610	Principles of Land Use Planning
	GIS	1710	Terrestrial Navigation
	GIS	3210	Introduction to Cartography
	GIS	3250	Computer Cartography
	GIS	4840	Remote Sensing
	GIS	4850	Advanced Geographic Information Systems
	GIS	4860	Applications of ARC/INFO to Natural Resources Management
	GIS	4870	Spatial Databases Design, Implementation, and Management
	GIS	4890	Advanced GIS Laboratory (Senior Experience)
	Total 1	reauired	concentration

Because GIS is an application tool, students are required to specialize in an **area of interest**. One of the following interest areas must be selected or one may be designed and approved by a department advisor. Select a minimum of 19 credit hours from one of the following areas, resulting in a major total of 65 hours. Note: other suggestions include the courses comprising minors in Computer Science (School of Letters, Arts and Sciences); Computer Information Systems, General Business, International Business, Marketing (School of Business), and Criminal Justice and Criminology (School of Professional Studies).

Areas of Interest

Environment

COURSES	
ENV 1200	Introduction to Environmental Science
ENV 3540	Advanced Geologic and Environmental Hazards–Denver and Vicinity
ENV 4000	Environmental Geology (required)
ENV 4010	Environmental Hazards and Planning
ENV 4200	Environmental Policy and Planning
ENV 4420	Wetlands

	ENV	4430	Habitat Planning
	ENV	4960	Global Environmental Challenges
	ENV	4970	Environmental Field Studies.
	GEG	4XXX	
	GEL	3150	Hydrogeology3
	GEL	4150	Hydrology
	Subtot	tal	
	Mete	orolog	ov
	COUR	•	57 SEMESTER HOURS
	MTR		Introduction to Atmospheric Science (required)
	MTR		Weather Observing Systems
	MTR		Air Pollution.
	MTR	3400	Synoptic Meteorology (required)
	MTR		Radar and Satellite Meteorology
	MTR		Hazardous Weather
	MTR		Forecasting Laboratory I
	MTR	4440	Climatology
	MTR	4500	Mesometeorology
	Subtot	tal	
	Dlam		
	Plan	_	
	COUR ENV		Introduction to Environmental Science
	ENV	4000	Environmental Geology
	ENV	4010	Environmental Hazards and Planning
	ENV		Environmental Policy and Planning
	ENV		Habitat Planning
		3610	Principles of Land Use Planning
	GEG	3630	Transportation Planning and Land Use.
	GEG		Urban and Regional Planning
	GEG		Residential Land Use Patterns.
	GEG		Recreational Land Use Patterns
			Advanced Seminars, Topics of Workshops in Geography
	Reso	urces	
	COUR		
	ENV		World Resources
	ENV		Water Resources
	ENV		Population, Resources, and Land Use
	ENV		Global Environmental Challenges
	GEL	3150	Hydrogeology
	GEL	3420	Soil Resources.
	GEL	3440	Energy and Mineral Resources
	GEL	4150	Hydrology
	Major	Total	65
Lai	nd U	se Ma	ijor for Bachelor of Arts
	114 0	JC 1110	
Url	oan La	nd Us	e Planning Concentration
	REOU	IRED C	OURSESSEMESTER HOURS
			2
	ENV	1200	Introduction to Environmental Science
	ENV		Population, Resources, and Land Use

I	ENV	4200	Environmental Policy and Planning
I	ENV	4430	Habitat Planning
I	ENV	4960	Global Environmental Challenges (Senior Experience)
(GEG	1300	Introduction to Human Geography
(GEG	2300	Geographic Analysis of Social Issues
(GEG	3360	Geography of Economic Activity
(GEG	3600	Urban Geography
(GEG	3610	Principles of Land Use Planning
(GEG	3630	Transportation Planning and Land Use
(GEG	4610	Urban and Regional Planning
(GEG	4620	Residential Land Use Patterns
(GEG	4640	Recreational Land Use Patterns
(GIS	4860	Applications of ARC/INFO to Natural Resources Management
9	Subtot	al	
		(0.1	
			ect a minimum of 5 credit hours)
	COUR		
_	ENV	4000	Environmental Geology
	ENV	4010	Environmental Hazards and Planning
I	ENV	4420	Wetlands
(GEG	3300	Land Use, Culture and Conflict (Multicultural)
(GEG	3920	Directed Study in Land Use
(GEG	4710	Legal Aspects of Land Use
(GEG	488X	Advanced Workshops in Geography
	GEG	490X	Advanced Topics or Seminars in Geography1-3
			5
1	Total fo	or major	
		1 .	z·
Geo	graj	phy M	finor
I	REOU	IRFD CO	DRE SEMESTER HOURS
	-	1120	Orienteering
	GEG	1220	Map Use
	GEG	1300	Introduction to Human Geography. 3
	MTR		Weather and Climate
_			weather and Chinate
	эиогон	ш	
Struct	tured	Elective	es
A min	nimun	n of 13	additional elective hours are required, including a minimum of six hours of up
divisi	on cre	edit tha	t must be selected in consultation with a department advisor to avoid prerequ
			ectives must be selected from the following five groups, and at least one course
be sele	ected	from ea	ch group to satisfy this requirement.

Stru

A m pperdivis uisite prol must be se

Physical	
COURSES	
GEG 1100	Introduction to Physical Geography
GEL 1010	General Geology
Resources an	d Environment
COURSES	
ENV 1200	Introduction to Environmental Science
ENV 1400	World Resources
ENV 3400	Water Resources
ENV 4000	Environmental Geology
GEL 3420	Soil Resources
GEL 3440	Energy and Mineral Resources

	Spatia	l Analys	sis and Planning	
	COUR	RSES		
ENV 3620 Population, Resources, and Land Use				
	ENV	4010	Environmental Hazards and Planning	
	ENV	Environmental Policy and Planning		
	ENV	4430	Habitat Planning	
	GEG	2300	Geographic Analysis of Social Issues	
	GEG	3600	Urban Geography	
	GEG	3610	Principles of Land Use Planning	
	GEG	3630	Transportation Planning and Land Use	
	GEG	4610	Urban and Regional Planning	
	GEG	4620	Residential Land Use Patterns	
	GEG	4640	Recreational Land Use Patterns	
	GEG	4710	Legal Aspects of Land Use	
	GEG	4XXX	Advanced Geography Seminars, Topics or Workshops	
	GIS	2250	Introduction to Geographic Information Systems	
	GIS	4850	Advanced Geographic Information Systems	
			Applications of ARC/INFO to Natural Resources Management	
	Regio	nal Geo	graphy	
	COUR	RSES		
	GEG	1000	World Regional Geography	
	GEG	2020	Geography of Colorado	
	GEG	3000	Historical Geography of the U.S	
	GEG	3520	Regional Geography: Variable Topics	
	GEL	1020	Geology of Colorado	
	Field-	Lecture		
	COUR			
	Either	a geogr	aphy or geology field-lecture course1-2	
	Electiv	e subtote	al13-16	
	Geogra	aphy Mi	nor Total	
Geo	logy	Minor		
	REQU	IRED C	ORE	
	GEL	1010	General Geology	
	GEL	1030	Historical Geology	
	GEL	3050	Mineralogy and Petrology	
	GEL	3060	Stratigraphy and Structure	
	Subto	tal	16	
Floc	tives			
		m of cir	ght additional hours of upper-division credit must be selected from the follow	
			n with a denartment advisor to avoid prerequisite problems. A maximum of	

Elec

A m owing **list in consultation with a department advisor to avoid prerequisite problems.** A maximum of four credit hours of the minor may be selected from the upper-division field-lecture courses.

COUR	SES	
ENV	4000	Environmental Geology
ENV	4010	Environmental Hazards and Planning
ENV	4970	Environmental Field Studies
GEL	3120	Advanced Geomorphology
GEL	3150	Hydrogeology
GEL	3420	Soil Resources
GEL	3440	Energy and Mineral Resources
GEL	35XX	Various Advanced Geology Field-Lecture courses (a limit of four hours of
		field-lecture courses can be counted toward the minor)1-2

GEL	390X	Advanced Topics in Geology	1-	3
GEL	4150	Hydrology		3
Subtot	al			8
Geolog	y Minor	total	.2	14

CERTIFICATE PROGRAMS AVAILABLE

Students must complete each course in a certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

Geographic Information Systems (GIS)

The certificate of completion in Geographic Information Systems will provide students and working professionals with the theoretical knowledge and technical and application skills needed to successfully use Geographic Information Systems (GIS), remote sensing, Global Positioning Systems (GPS), and cartography to determine solutions to problems in the management, conservation, and improvement of natural and man-made environments.

In any field related to natural resources, and for many fields related to the administration of man-made environments, education and training in GIS have gone from being specialized skills to being *de facto* requirements. This certificate is designed for professionals who work in those fields, for professionals who analyze human and socio-economic data, and for degree-seeking students interested in anthropology, archaeology, biology, business, civil engineering technology, criminal justice, ecology, economics, environmental science, geography, geology, health sciences, land use planning, and social sciences, as well as other programs.

Admissions Requirements:

- 1. There are no special admission requirements for students seeking GIS certification.
- 2. All students must take the prerequisite courses or provide evidence of equivalent training and receive an official waiver. The courses that have prerequisites are GIS 2250 and GIS 4840. GIS 4850 and GIS 4890 require upper-division standing or senior standing. All courses can be taken by permission of instructor (the official waiver).

Completion Requirements:

All students seeking GIS certification must maintain a 3.0 or above in the certificate program because GIS technology and its applications require a high degree of discipline and commitment.

REQUIRED COURSESSEMESTER HOURS					
GIS	1710	Terrestrial Navigation			
GIS	2250	Introduction to Geographic Information Systems			
GIS	3250	Computer Cartography			
GIS	4840	Remote Sensing			
GIS	4850	Advanced Geographic Information Systems			
GIS	4860	Applications of ARC/INFO to Natural Resources Management			
GIS	4870	Spatial Databases Design, Implementation, and Management			
GIS	4890	Advanced GIS Laboratory			
Total credits for certificate					

Geotechnology Systems (GTS)

The Geotechnology Systems Certificate (GTS) will provide students and industry personnel with the necessary theoretical knowledge and technical and application skills needed to apply geologic computer software and cartography to support geologists in their decision-making processes. Further, this certificate is designed for industry personnel who work with the management and exploitation of natural resources, such as petroleum and water resources, as well as for degree-seeking students interested in environmental science, geology, land use planning, and related fields.

Increasing operating costs and decreasing budgets for hiring professional geologists, geophysicists, and petroleum engineers has produced a demand for mid-level persons trained in petroleum technology. Using the latest computer methods, these geotechnicians or "geotechs" typically perform data searches, generate maps and cross sections, gather and organize well data, and perform numerous other tasks in support of exploration and development efforts. By some estimates, the combination of a geologist with a geotechnician will result in a synergy that produces more than twice the output of either working alone. The result is a significant increase in productivity.

Admissions Requirements:

- 1. There are no special admission requirements for students seeking GTS certification.
- 2. All students must take the prerequisite courses or provide evidence to the instructor that they have equivalent training before they can enroll in certificate courses. Some courses in the certificate are prerequisites to other courses in the certificate. Prerequisite courses that are not listed as courses required for the certificate are: GEL 1010-4, *General Geology*; CIS/CSS 1010-3, *Introduction to Computers*; GEG 1220-2, *Map Use*; and GIS 2250-3, *Introduction to Geographic Information Systems*.

Completion Requirements:

All students seeking GTS certification must maintain a 3.0 or above in the certificate program. Geotechnology and its applications require a high degree of discipline and commitment. The courses required for the certificate are very challenging with regard to the theoretical and practical subjects. They require a significant amount of time devoted to hands-on and laboratory exercises. Students successfully completing this certificate can take pride in their accomplishment.

REQU	TRED C	OURSESSEM	ESTF	ER F	IOU	RS
GEL	1030	Historical Geology				. 4
GEL	2700	Introduction to Petroleum Technology				. 3
GEL	2710	Computer Applications in Earth Sciences				. 3
GEL	3060	Stratigraphy and Structure				. 4
GEL	3700	Integrated Geotechnology				. 3
GEL	3710	Earth Sciences Data Management				. 3
GEL	4700	Subsurface Geology				. 3
GIS	3250	Computer Cartography				. 3
Total (Prodite					26

MATHEMATICAL AND COMPUTER SCIENCES DEPARTMENT

The Mathematical and Computer Sciences Department offers bachelor of arts and bachelor of science degrees in mathematics and a bachelor of science degree in computer science. The department offers both a mathematics and computer science minor, both of which complement such majors as engineering technology, the other sciences, and economics. In addition, the minor program in computer science complements the mathematics major. See Computer Science on page 131 of this *Catalog*.

In addition to the general mathematics major, the department offers a mathematics major in five concentrations encompassing a variety of significant mathematical ideas. These concentrations give the student background for graduate school in theoretical mathematics, as well as background for both graduate school and employment in mathematically related fields including applied mathematics, scientific computing, probability and statistics, and mathematics education. The degree program in computer science adheres to nationally recognized standards and provides students with a more technical alternative to the mathematics concentration in computer science.

All students who are considering a major or minor in mathematics or computer science are expected to consult with faculty for advising. All course and test score prerequisites for 1000 level MTH courses must be five or fewer years old.

Major in Mathematics for Bachelor of Arts or Bachelor of Science

The Department of Mathematical and Computer Sciences offers course work leading to the bachelor of arts or bachelor of science degree. The student may choose either 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). The department strongly recommends that students interested in the applied mathematics concentration take sections of calculus using *Mathematica*.

BASIC MATH	EMATICS CORE	SEMESTER HOURS
MTH 1410	Calculus I*	4
MTH 2410*	Calculus II*	4
MTH 2420	Calculus III**	4
MTH 3100 I	ntroduction to Mathematical Proofs	
Total		

^{*}Some sections of this course have a Mathematica component.

For mathematics majors, except those in mathematics education, there is a one-hour project-oriented course at the senior level that synthesizes the material in the major. Each major is also required to take a Senior Experience course and to complete a minor. 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 Applied Mathematics
Computer Science Mathematics Education
Probability and Statistics 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					
One of the following three courses:					
CS 1050 Computer Science 1					
CSS 1247 Introduction to Programming: Visual Basic					
MTH 1510 Computer Programming: FORTRAN					
MTH 4390 Mathematics Senior Seminar					
Subtotal					

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 and MTH 3140* OR MTH 3110 and MTH 4110 OR MTH 3210 and MTH 3220 OR MTH 3420 and MTH 3440 OR MTH 4210 and MTH 4220 OR MTH 4410 and MTH 4420 OR MTH 4480 and MTH 4490

Subtotal	 	 	22
Total	 	 	42

^{*}Only one of the three courses MTH 2140, MTH 3130, and MTH 3140 can be counted.

^{**}All sections of this course have a Mathematica component.

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 SEMESTER HOURS				
	Basic (Core			
	One o	f the fol	llowing	three courses:	
	CS	1050	Comp	uter Science 1 4	
	CSS	1247	Introd	uction to Programming: Visual Basic	
	MTH	1510	Comp	uter Programming: FORTRAN	
	All fou	ar of the	e follow	ving courses:	
	MTH	3140	Linear	Algebra*	
	MTH	3210	Probal	pility and Statistics 4	
	MTH	3420	Differe	ential Equations	
	MTH	4480	Nume	rical Analysis I	
	At leas	st one o	f the fo	llowing sequences:	
	MTH	3420 &	3440	Differential Equations & Partial Differential Equations	
	MTH	4480 &	4490	Numerical Analysis I & II	
	MTH	4410 &	4420	Advanced Calculus I & II	
	MTH	4410 &	4450	Advanced Calculus I & Complex Variables	
Addi	tional	hours fr	om the	e following for a total of at least 42 hours:	
	MTH	3220	Design	n of Experiments	
	MTH	3250	Optim	ization Techniques I	
	MTH	3260	Optim	ization Techniques II	
	MTH	3440		Differential Equations	
	MTH	4210		pility Theory	
	MTH	4410	Advan	ced Calculus I **	
	MTH	4420	Advan	ced Calculus II	
	MTH	4450	Comp	lex Variables	
	MTH	4490	Nume	rical Analysis II	
	Total .			42	

^{*}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.

Computer Science Concentration

This concentration with its required minor is designed for the student who wants to combine applied mathematics or statistics with computer science. The required computer science minor includes the core courses for the computer science major. A grade of "C" or better is required in each course included in the major and in the required computer science minor.

REQUIRED COURSES					
Basic Core					
MTH 3140	Linear Algebra*				
MTH 3210	Probability and Statistics				
MTH 3420	Differential Equations				
MTH 4480	Numerical Analysis I				
Subtotal					
Two of the following courses:					
MTH 3220	Design of Experiments				

^{**}Students who are considering graduate school in mathematics are strongly encouraged to take this course.

MTI	H 3440	Partial Differential Equations
MTI	H 4210	Probability Theory
MTI	H 4220	Stochastic Processes
MTI	H 4490	Numerical Analysis II
Subt	otal	8
One	of the fol	lowing courses:
MTI	H 4290	Senior Statistics Project
MTI	H 4390	Mathematics Senior Seminar
MTI	H 4590	Applied Mathematics Senior Seminar
Subt	otal	
Tota	!	
*M7	H 3130 a	and one of the following (MTH 3110 or MTH 3650 or MTH 4110 or MTH 4150 or
MTI	I 4410 or	MTH 4660) may substitute for MTH 3140.
Compute	" Scionce	
Compute	1 Science	Minor (Required for the Computer Science Concentration)
_		• Minor (Required for the Computer Science Concentration) OURSES
_		
REQ	UIRED C	OURSESSEMESTER HOURS
REQ CS	UIRED CO 1050	OURSES
REQ CS CS	UIRED CO 1050 2050	OURSES SEMESTER HOURS Computer Science 1 4 Computer Science 2 4
REQ CS CS CS	UIRED CO 1050 2050 3050	OURSES SEMESTER HOURS Computer Science 1 4 Computer Science 2 4 Computer Science 3 4
REQ CS CS CS CS	UIRED CO 1050 2050 3050 3210	OURSES SEMESTER HOURS Computer Science 1. 4 Computer Science 2. 4 Computer Science 3. 4 Principles of Programming Languages 4
REQ CS CS CS CS	UIRED CO 1050 2050 3050 3210 3240	COURSES Computer Science 1. 4 Computer Science 2. 4 Computer Science 3. 4 Principles of Programming Languages 4 Introduction to the Theory of Computation 2

Mathematics Education Concentration

The concentration in mathematics education is for the preparation of classroom teachers of mathematics at the secondary level and is also appropriate for students who plan to teach at the elementary level. Students seeking teacher licensure at either level must satisfy MSCD's professional education program requirements for the desired level in addition to all of the mathematics major requirements. In particular, students seeking licensure at the secondary level with endorsement in mathematics must complete the Professional Education Sequence in Secondary Mathematics described below. Students seeking licensure at the elementary level should take the General Course Requirements for Elementary Education Licensure and the Professional Elementary Education Licensure Sequence listed on page 317 of this *Catalog*. Content competency must be shown for mathematics course credit that is ten or moreyears old. A grade of "C" or better is required for all courses in the major.

REQUIRED COURSESSEMESTER HOURS			
Basic Core			
One of the following three courses:			
CS 1050	Computer Science 1		
CSS 1247	Introduction to Programming: Visual Basic		
MTH 1510	Computer Programming: FORTRAN		
Subtotal	4		
MTH 3110	Abstract Algebra I		
MTH 3140	Linear Algebra*		
MTH 3210	Probability and Statistics		
MTH 3470	Introduction to Discrete Mathematics and Modeling		
MTH 3650	Foundations of Geometry		
MTH 4600	Seminar in Problem Solving		
MTH 4640	History of Mathematics**		
*MTH 3130 a	and one of the following (MTH 4110 or MTH 4150 or MTH 4410 or MTH 4660) may		
substitute for I	MTH 3140.		
**Senior Expe	rience Course		
Advanced Mathematics Total			

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 (see page 337). Students should pay particular attention to corequisites and prerequisites.

	1	/ 1 1 1
REQU	IRED C	OURSESSEMESTER HOURS
EDS	3110	Processes of Education in Multicultural Urban Secondary Schools ^a
EDS	3120	Field Experiences in Multicultural Urban Secondary Schools ^a
EDS	3200	Educational Psychology Applied to Teaching
EDS	3210	Standards-Based Curriculum, Assessment,
		and Classroom Management in the Secondary School ^b
EDS	3220	Field Experience in Standards-Based Teaching, Assessment,
		and Management in the Secondary School b
EDT	3610	Applications of Educational Technology c2-3
MTL	3620	Mathematics of the Secondary Curriculum
MTL	3630	Teaching Secondary Mathematics ^d
MTL	3638	Secondary Mathematics Field Experience d
MTL	4690	Student Teaching and Seminar: Secondary 7–12
RDG	3280	Teaching Literacy Skill Development in the Content Areas
SED	3600	The Exceptional Learner in the Classroom
Total.		

^a These two courses must be taken concurrently.

Probability and Statistics Concentration

The concentration in probability and statistics stresses the application of the principles and methods of statistics and probability in the biological, physical, and social sciences and engineering. This concentration also prepares the student for graduate study. A grade of "C" or better is required in all courses included in the major.

REQUIRED COURSES					
Basic Core					
MTH 1510	Computer Programming: FORTRAN	4			
MTH 2140	Computational Matrix Algebra*				
MTH 3210	Probability and Statistics	4			
MTH 3220	Design of Experiments	4			
MTH 3250	Optimization Techniques I	4			
MTH 4210	Probability Theory	4			
Subtotal					
One of the following two courses:					
MTH 4220	Stochastic Processes	4			
MTH 4230	Applied and Computational Statistics	4			
Subtotal					
MTH 4290	Senior Statistics Project	1			
Total					
*MTII 2120 -	*MTH 2120 an MTH 2140 and be collected for MTH 2140				

^{*}MTH 3130 or MTH 3140 may be substituted for MTH 2140.

^b These two courses must be taken concurrently.

^c Although EDT 3610 is required, it is expected that Mathematics Education majors will test out of this class by demonstrating the expected outcomes.

^d These two courses must be taken concurrently.

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 C	OURSESSEMESTER HOURS
Basic Core	
One of the following CS 1050 CSS 1247 MTH 1510	ng three courses: Computer Science 1
All four of the follo	owing courses:
MTH 3110 MTH 3140* MTH 4410 MTH 4420	Abstract Algebra I 3 Linear Algebra 4 Advanced Calculus I 4 Advanced Calculus II. 3
MTH 4110 MTH 4450 MTH 4660	Illowing courses: 3 Abstract Algebra II. 3 Complex Variables 4 Topology 3 39-40
*MTH 3130 a MTH 3140.	nd one of the following (MTH 3650 or MTH 4150 or MTH 4640) may substitute for
Minor in Ma	thematics*
REQUIRED C MTH 1410 MTH 2410	ORE SEMESTER HOURS Calculus I 4 Calculus II 4
MTH 3100 CS 1050 CSS 1247 MTH 1510	llowing courses: Introduction to Mathematical Proofs
	of 10 hours at least 7 of which must be upper division. The ten hours must be the set of all 2000, 3000, or 4000 level math classes, with the exceptions of MTH H 3240.

^{*}Note: Only one of three courses, MTH 2140, MTH 3130, or MTH 3140 can be counted. A major that requires a minor in mathematics can specify the courses for such a minor, and the total hours required may exceed the 21-22 hour total listed above. Please consult the listings included with those majors.

 Electives
 10

 Total.
 21-22

METEOROLOGY PROGRAM

Department of Earth and Atmospheric Sciences

Meteorology is the science of the atmosphere. Meteorologists are employed in operational meteorology, meteorological research, applied meteorology, and the media. Meteorologists study global weather and climate, and investigate the influence that human beings exert on earth's climate. The Meteorology

ogy Computer Laboratory provides access to real-time weather data and analysis software supported by the UNIDATA Program. The bachelor of science degree conforms to the American Meteorological Society and National Weather Service recommendations for an undergraduate meteorology degree. A mathematics minor is a requirement of the meteorology major. Students should contact a meteorology faculty member to discuss degree programs, career opportunities, and graduate school options. Contact the Earth and Atmospheric Sciences Department for additional information.

Meteorology Major for Bachelor of Science

Meteorolog	y Major for Dachelor of Science
REQUIRED	COURSESSEMESTER HOURS
MTR 2400	Introduction of Atmospheric Science
MTR 2410	Weather Observing Systems
MTR 3400	Synoptic Meteorology
MTR 3410	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MTR 3430	Atmospheric Thermodynamics
MTR 3440	Physical Meteorology
MTR 3450	Dynamic Meteorology
MTR 4400	7 1 07
MTR 4440	
MTR 4500	67
MTR 4600	**
Elective Met	eorology Courses
Subtotal	
Required M	athematics Minor:
MTH 1410	
MTH 1510	
-or-	
CS 1050	Computer Science 1
MTH 2410	*
MTH 2420	Calculus III
MTH 3210	Probability and Statistics
MTH 3420	•
Subtotal	24
Additional (Course Requirements:*
CHE 1800	•
ENG 1010	•
ENG 1020	· · · · · · · · · · · · · · · · · · ·
PHY 2311	, 2321 General Physics I and Laboratory
	, 2341 General Physics II and Laboratory
	munications
Level II Arts	and Letters. 6
Level II Hist	orical
Level II Soci	al Science
Subtotal	38
Approved E	lectives
Total	
*Students m	ust consult a faculty advisor regarding General Studies requirements.
Minor in M	eteorology
REQUIRED	COURSESSEMESTER HOURS
MTR 2400	
MTR 3400	
A 1 E	by the plant of th

Approved Electives*				
MTR	2410	Weather Observing Systems	3	
MTR	3100	Air Pollution	3	
MTR	3410	Weather Analysis Techniques	2	
MTR	3420	Radar and Satellite Meteorology	3	
MTR	3500	Hazardous Weather	3	
MTR	3710	Meteorological Cooperative Education I	6	
MTR	4210	Forecasting Laboratory I	1	
MTR	4220	Forecasting Laboratory II	1	
MTR	4230	Forecasting Laboratory III	1	
MTR	4240	Forecasting Laboratory IV	1	
MTR	4440	Climatology	3	
MTR	4500	Mesometerology	3	
AES	3460	Weather and Aircrews**	3	
Subtotal				

MODERN LANGUAGES DEPARTMENT

The Modem Languages Department offers a major program in modem languages with concentrations in French, German, and Spanish; minor programs in French, German, and Spanish; and teacher education programs in a variety of combinations. Courses in other foreign languages and in occupational or professional fields are offered in order to meet student and community needs. In addition, the department administers several study abroad programs, as well as certificate programs in basic French, German, and Spanish studies.

Students are placed in courses at levels appropriate to their ability as indicated by the BYU placement exam.

The above may not be applicable if students have had no professional instruction in their chosen foreign language within the past two years. Students can also take a test if they feel that may have insufficient preparation for the required level or are not sure of that level. Elementary courses do not apply toward the major or minor requirements.

Students seeking secondary credentials in French, German, or Spanish must satisfy the teacher education program of MSCD in addition to all of the major requirements. They must also demonstrate sufficient mastery of the target language or languages through an appropriate proficiency exam.

Modern Languages Major for Bachelor of Arts

The Bachelor of Arts in Modern Languages degree may be completed by selecting either Option I or Option II. Students are advised into intermediate and advanced classes in each language on the basis of individual background and need. A grade of "C" or better must be earned in each required course to have that course count toward the Bachelor of Arts degree in Modern Languages.

Option I

This Modern Languages major option requires a minimum of 42 hours in one of three following languages: French, German, or Spanish.

Students pursuing this option for the degree in Modern Language need a minor.

^{*}Some calculus-based courses are also available.

^{**}This course is required for some aviation technology majors. For this course to count toward the meteorology minor, students must consult with an advisor in the Aviation and Aerospace Science Department.

For the language emphasized, either French, German or Spanish, students must complete a minimum of 27 hours of coursework and the three (3) credit hour Senior Experience after the core curriculum. No more than 12 hours may be taken at the 2000 level.

-		h Concentration vision courses (12 hours):
COU FRE FRE FRE FRE	URSES 2010 2020 2110 3010	SEMESTER HOURS
The rema	ining 30 l	nours of upper division must consist of at least:
Advance	d Languaş	ge courses (12 hours):
FRE FRE FRE <i>Min</i> Adv	3150 3310 3320 imum Tota anced Lar	Advanced French Composition and Grammar 3 Advanced Conversation 3 al nguage on the 4000 level: (3 hours)
FRE		Literature, Culture and Translation
		ıl
Cult FRE FRE	3550 3560	ture courses (18 hours): ss: (6 hours) French Historical Perspectives
FRE FRE	3110 3120	rature courses: (6 hours) Survey of French Literature I
FRE FRE FRE	4520* 4530* 4750	wo courses: Modern French Theater
One	xperience course m irement.	: arked with an (*) will satisfy this requirement; Student Teaching will satisfy this
TOT	TAL CRED	IT HOURS:
Required COU GEF GEF GEF Min	URSES 22110 Ger 22120 Ger 22310 Ger 22320 Ger imum Tota	an Concentration vision courses (12 hours):
	irses of 30 mission.	000 or 4000 level may be substituted for the lower division courses, with

The remaining 30 hours of upper division must consist of at least:

Advanc	ced Lan	iguag	e courses (15 hours):
Ac	dvanced	l Lang	guage on the 3000 level (9 hours) Choose any three courses:
GI GI	ER 31 ER 33 ER 34	50 00 10	Third Year German Conversation
			guage on the 4000 level: (6 hours)
			o courses: Advanced German Composition
Gl Gl	ER 42 ER 44	10 10*	Advanced Conversation: Present-day Germany
			ture courses(15 hours):
	ulture a ER 30		3000 or 4000 level (3 hours) Choose any one course: Cultural Crossroads: France, Germany, Spain
	ER 30 ER 32		German Culture and Civilization.
	ER 34		German Business Culture
G]	ER 44		Advanced German Business Culture
M	inimun	ı Total	1
Li	teratur	e on t	the 3000 or 4000 level (6 hours) Choose any two courses:
	ER 32		Survey of German Literature I
G]	ER 32	20	Survey of German Literature II
	ER 32		Contemporary German Writers
	ER 42		Major German Authors
M	ınımun	i Totai	Ι
Cl	hoose a	ny two	re or Literature on the 3000 or 4000 level (6 hours) o additional courses from Literature and Culture 1
O: red	ne cour quirem	se ma ent.	Requirement arked with an (*) will satisfy this requirement; Student Teaching will satisfy this THOURS
10	JIAL C	KEDI	1 HOURS
Optio	n I: Sp	panis	sh Concentration
Require	ed lowe	er div	ision courses (12 hours):
SF SF SF SF	OURSE PA 21 PA 21 PA 23 PA 23	S 10 20 10 20	SEMESTER HOURS Spanish Reading and Conversation I Spanish Reading and Conversation II Spanish Grammar and Composition I
The ren	naining	g 30 h	ours of upper division must consist of at least:
Advano	ced Lan	iguag	e courses (12 hours):
Ac	dvanced	l Lang	guage on the 3000 level: (6 hours)
SF		_	Advanced Conversation 3
SF	PA 31	40	Advanced Grammar and Composition
M	inimun	ı Totai	l

	Advar	nced Lar	nguage on the 4000 level: (6 hours)	
	SPA	4010	Advanced Spanish Writing and Grammar I	3
	SPA	4020	Advanced Spanish Writing and Grammar II	
	Minin	ıum Tota	ıl	6
Cult	ure an	d Litera	ture courses (15 hours):	
	Cultur	re (6 hou	urs) Choose one course:	
	SPA	3050	Cultural Crossroads: France, Germany, Spain	3
	SPA	3200	Culture and Civilization of Spain.	
	Minin	ium Tota	ıl	3
	*Choo	ose one	course:	
	SPA	3210	Spanish-American Culture and Civilization	3
	SPA	3220	Folklore and Culture of the Mexican Southwest	3
	SPA	3600	Latin American Film	3
	*(SPA	3150 car	n be substituted for this course)	
	Minin	ıum Tota	ıl	3
	Litera	ture: (9	hours)	
	SPA	3250	Introduction to Literary Studies in Spanish (Required course)	3
	Minin	ium Tota	ıl	3
	Choo	se any tv	wo courses:	
	SPA	3400	Survey of Spanish Literature I	3
	SPA	3410	Survey of Spanish Literature II	
	SPA	3510	Survey of Latin American Literature	3
	SPA	4110	Contemporary Spanish Literature	3
	SPA	4120	Contemporary Latin-American Literature	3
	Minin	ıum Tota	ıl	6
Seni	or Exp	erience	:	
	Choos	se one co		
	SPA	4200	Spanish-American Essay:19th and 20th Centuries	
	SPA	4310	History of the Spanish Language	3
			ing will satisfy this requirement.	
			il	
	TOTA	L CRED.	IT HOURS4	2
Ont	ion II	г		

Option II

This Modern Languages major option requires a minimum of 60 hours in a combination of two modern languages: French-German, German-Spanish, Spanish-French.

Students pursuing this option for the degree of Modern Languages do not need a minor.

For the language emphasized, either French, German or Spanish, students must complete a minimum of 42 hours of course work at the 2000-level or above. No more than 12 hours may be taken at the 2000 level. To complete the 60-hour requirement, students must take at least 18 hours at the 2000-level or above in a second language. Students are advised into intermediate and advanced classes in each language on the basis of individual background and need. The minimum 18 hours in each of the second languages must be taken as follows:

French

COUI	RSES	SEMESTER HOURS
FRE	2010	Intermediate French I
FRE	2020	Intermediate French II
FRE	2110	French Reading and Conversation
FRE	3010	Introduction to Advanced French Studies
French electives (upper division)		
Subto	tal	

Gei	man		
	COURS	ES	SEMESTER HOURS
	GER 2	2110	German Reading and Conversation
	GER 2	2120	German Civilization
	GER 2	2310	German Vocabulary Building and Grammar
		2320	German Composition and Free Writing
			ves (upper division)
	Subtota	<i>l</i>	
Sna	nish		
Opu	COURS	FS	
		2110	Spanish Reading and Conversation I
		2120	Spanish Reading and Conversation II
	SPA 2	2310	Spanish Grammar and Composition I
	SPA 2	2320	Spanish Grammar and Composition II
	Spanish	electiv	ves (upper division)
	Subtota	<i>l</i>	18
The	remaini	ng hou	ars to complete the 60 hours required must be taken with departmental approval.
Stuc	lents pre	eparing	g for teacher licensure may include the three (3) credits of MDL 4960 Teaching For-
eign	Languag	ges in t	he Secondary Schools in the 42 hours if they so desire.
Mo	dern L	angua	ages Major with Teacher Licensure, page 341.
Mi	nor in	ı Fre	nch
	REQUII	RED CO	OURSESSEMESTER HOURS
	FRE 2	2010	Intermediate French I
	FRE 2	2020	Intermediate French II
		2110	French Reading and Conversation
		3010	Introduction to Advanced French Studies
		3110	Survey of French Literature I
		or– 3120	Survey of French Literature II
		3550	French Historical Perspectives
		-or-	Trends Thotofred Tetapeetives
	FRE :	3560	Contemporary Socio-Cultural Issues
	French	Elective	es*
	Total		
	*Must b	ре а сои	erse at the 3000- or 4000-level.
Mi	nor ir	ı Gei	rman
	REQUII	RED CO	OURSESSEMESTER HOURS
	GER 2	2110	German Reading and Conversation*
	GER 2	2120	German Civilization*
		2310	German Vocabulary Building and Grammar*
	GER 2		German Composition and Free Writing*
	Subtota	<i>l</i>	12
			e following literature courses:
	COURS		SEMESTER HOURS
		3210	Survey of German Literature I**
		3220	Survey of German Literature II**
	GER 3		Contemporary German Writers**

Selec	t 2 of th	e following skills courses:
COU	RSES	
GER	3010	Third Year German Conversation
GER	3300	Advanced German Grammar
GER	3400	German Business Culture
GER	3410	Translation Techniques for Scientific Materials
		6
*Higi	ier-level	
Minor	in Spa	nnish
REOU	ЛRED С	OURSESSEMESTER HOURS
SPA	2110	Spanish Reading and Conversation I
SPA	2120	Spanish Reading and Conversation II
SPA	2310	Spanish Grammar and Composition I
SPA	2320	Spanish Grammar and Composition II
SPA	3110	Advanced Conversation
SPA	3200 -or-	Culture and Civilization of Spain
SPA	3210 -or-	Spanish–American Culture and Civilization
SPA	3220	Folklore and Culture of the Mexican Southwest
SPA	3250	Introduction to Literary Studies in Spanish
CERTI	FICA	TE PROGRAMS AVAILABLE sites and more information call the Department of Modern Languages, 303-556-2908.
Basic C	Compe	etency in French
		mplete each course in this certificate program with a grade of "C" or better. The taken pass/fail.
	RSES	SEMESTER HOURS
FRE	1010	Elementary French I
FRE	1020	Elementary French II
FRE	2010	Intermediate French I
FRE	2020	Intermediate French II
FRE	2110	French Reading and Conversation
Basic C	Compe	etency in German
		mplete each course in this certificate program with a grade of "C" or better. The taken pass/fail.
	RSES	SEMESTER HOURS
GER	1010	Elementary German I
GER	1020	Elementary German II
GER	2110	German Reading and Conversation
GER	2120	German Civilization
GER	2310	German Vocabulary Building and Grammar

Basic Competency in Spanish

Students must complete each course in this certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

COURSES		SEMESTER HOURS
SPA	1010	Elementary Spanish I
SPA	1020	Elementary Spanish 11 5
SPA	2110	Spanish Reading and Conversation I
SPA	2120	Spanish Reading and Conversation II
SPA	2310	Spanish Grammar and Composition I
SPA	2320	Spanish Grammar and Composition II

German Translation Program

Students must complete each course in this certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

COURSES	SEMESTER HOURS
GER 3300	Advanced German Grammar
GER 3400	German for Business I
GER 3410	Translation Techniques for Scientific Materials
GER 4020	Advanced German Composition
GER 4410	Advanced Translation Techniques

Spanish Translation Program

Students must complete each course in this certificate program with a grade of "B" or better. The courses cannot be taken pass/fail.

COURSES		SEMESTER HOURS
SPA	3140	Advanced Composition
SPA	4010	Advanced Spanish Writing and Grammar I
SPA	4020	Advanced Spanish Writing and Grammar II
SPA	3650	Introduction to Spanish Translation I
SPA	4050	Introduction to Spanish Translation II

MUSIC DEPARTMENT

The Metropolitan State College of Denver is an accredited institutional member of the National Association of Schools of Music. The Music Department offers a Bachelor of Music degree with concentrations in performance and composition, a Bachelor of Music Education degree with concentrations in choral and instrumental music, a Bachelor of Arts in Music degree, and a minor in music. The Bachelor of Music and Bachelor of Music Education degrees are professional degree programs designed for students wishing to prepare themselves for careers as performers, composers, or teachers or for further graduate study; these degrees do not require a minor. The Bachelor of Arts in Music degree is a non-professional degree with a liberal arts focus, and does require a minor.

The department also offers courses designed for students wishing to enhance their general understanding and enjoyment of music. In addition, musically talented students from all areas of the College are encouraged to participate in the wide variety of large and small music ensembles including band, orchestra, choir, jazz ensembles and chamber music.

The Bachelor of Music degree prepares students for further graduate studies, or for careers as performers or private studio teachers. To be admitted to this program, students must demonstrate the capability of developing a high level of musicianship in performance by passing the music performance audition upon completion of MUS 1720, Private Instruction II.

The Bachelor of Music Education degree prepares students for careers teaching instrumental, choral, and general music in K-12 schools, and satisfies the requirements for K-12 licensure in the State of Colorado. Students seeking this degree must satisfy all applicable requirements of the Department of Music and the School of Professional Studies teacher education program. Students should read the teacher licensure sections of this Catalog, and stay in regular contact with both a music and teacher education advisor. To become licensed, recipients of the Bachelor of Music Education degree must satisfy all applicable requirements of the teacher education and licensure programs in the School of Professional Studies. This degree program is approved by the Colorado State Department of Education and has full accreditation by the National Council for the Accreditation of Teacher Education.

Students must attain a grade of "C" or above in all music courses required for any major or minor. Further information, including examination policies, procedures, and requirements, is provided in the departmental publication titled Department of Music Student Handbook. All music majors and minors should familiarize themselves with this publication.

All students (including transfer students) wishing to major or minor in music should be prepared to take placement examinations in the areas of music theory and music history and to perform an audition in their primary performance area. For placement and audition appointments, contact the Department of Music at least two weeks before the beginning of the semester.

Bachelor of Music

Piano, Organ, Guitar, Woodwinds, Brass, Strings, and Percussion **Performance Concentrations**

COURSES	SEMESTER HOURS
Core Requirements	61
Secondary Performance Area	2
Ensembles	12
Concentration	6
General Studies	33
Electives	6
Total hours required	120*

^{*} Must include the 3-credit hour multicultural requirment.

Core Requirements

	1	
COURSES		
MUS	1110	Music Theory I
MUS	1120	Music Theory Lab I
MUS	1130	Music Theory II
MUS	1140	Music Theory Lab II
MUS	1210	European Music Literature
MUS	1220	World Music Literature
MUS	1650	Basic Music Technology
MUS	1710	Private Instruction I (Primary Performance Area)
MUS	1720	Private Instruction II (Primary Performance Area)
MUS	2110	Music Theory III
MUS	2120	Music Theory Lab III
MUS	2130	Music Theory IV
MUS	2140	Musisc Theory Lab IV
MUS	2730	Performance III (Primary Performance Area)
MUS	2740	Performance IV (Primary Performance Area)
MUS	3210	Music History I
MUS	3220	Music History II
MUS	3440	Jazz Improvisation and Pedagogy
MUS	3510	Basic Conducting
MUS	3730	Performance V (Primary Performance Area)

MUS 4730 MUS 4740 MUS 4790 Subtotal	Performance VI (Primary Performance Area) 4 Performance VII (Primary Performance Area) 4 Senior Recital Performance 4 Senior Recital Project 1 61
Select two how MUS 161A MUS 162A MUS 161B MUS 162B MUS 161K MUS 1710 Subtotal*	Performance Area* urs from the following: Class Voice I (Secondary Performance Area)
MUS 2810 MUS 3810 Subtotal *These course student's conceeach semester	Ensemble
	the following concentrations:
Piano Concei	ntration
MUS 3100	Counterpoint
MUS 4410 Subtotal	Piano Pedagogy
Subtotal	Piano Pedagogy
Organ Conce MUS 3100 MUS 3520	Piano Pedagogy
Organ Conce MUS 3100 MUS 3520 Subtotal	Piano Pedagogy 3 6 Intration Counterpoint 3 Choral Conducting and Literature 3 6
Organ Conce MUS 3100 MUS 3520 Subtotal	Piano Pedagogy 3 6 Intration 3 Counterpoint 3 Choral Conducting and Literature 3 entration
Subtotal Organ Conce MUS 3100 MUS 3520 Subtotal Guitar Conce MUS 3100	Piano Pedagogy 3 6 Intration 3 Counterpoint 3 Choral Conducting and Literature 3 Intration 6 Counterpoint 3
Subtotal Organ Conce MUS 3100 MUS 3520 Subtotal Guitar Conce MUS 3100 MUS 3150 Additional Ele	Piano Pedagogy 3 6 Intration 3 Counterpoint 3 Choral Conducting and Literature 3 entration
Organ Conce MUS 3100 MUS 3520 Subtotal Guitar Conce MUS 3100 MUS 3150 Additional Ele Subtotal	Piano Pedagogy 3
Organ Conce MUS 3100 MUS 3520 Subtotal Guitar Conce MUS 3100 MUS 3150 Additional Ele Subtotal	Piano Pedagogy 3
Subtotal Organ Conce MUS 3100 MUS 3520 Subtotal Guitar Conce MUS 3100 MUS 3150 Additional Ele Subtotal Woodwind, E MUS 3150 MUS 3530	Piano Pedagogy 3

	MUS	3450	Brass Techniques and Pedagogy
	MUS		Percussion Techniques and Pedagogy
	Subtot	al	6
	Gene	ral Stu	ıdies
	SPE	1010	Public Speaking
	Additi	onal Ge	neral Studies classes for the degree*
	Subtot	al	
	*See th	ie Gener	al Studies section of this Catalog for requirements.
Ba	chelo	r of N	Music
Voi	ce Pei	rforma	ance Concentration
	Core F	Reauiren	nents
			formance Area
	Ensem	•	
	Voice	Perform	ance Concentration
	Gener	al Studie	es
	Total k	iours req	uired
	* 1/440	۔ داریاں ماری ط	the 2 and the hour multicultural marriagement
	IVIUSI	псиие	the 3-credit-hour multicultural requirement.
	Core	Requi	rements
	COUF	_	
	MUS		Music Theory I
	MUS		Music Theory Lab I
	MUS		Music Theory II
	MUS	1140	Music Theory Lab II
	MUS	1210	European Music Literature
	MUS	1220	World Music Literature
	MUS	1650	Basic Music Technology
	MUS	1710	Private Instruction I (Primary Performance Area)
	MUS	1720	Private Instruction II (Primary Performance Area)
	MUS	2110	Music Theory III
	MUS	2120	Music Theory Lab III
	MUS	2130	Music Theory IV
	MUS	2140	Music Theory Lab IV
	MUS	2730	Performance III (Primary Performance Area) 4
	MUS	2740	Performance IV (Primary Performance Area)
	MUS	3210	Music History I
	MUS	3220	Music History II
	MUS		Jazz Improvisation and Pedagogy
	MUS		Basic Conducting
	MUS		Performance V (Primary Performance Area)
	MUS		Performance VI (Primary Performance Area)
	MUS		Performance VII (Primary Performance Area)
	MUS		Senior Recital Performance
	MUS		Senior Recital Project
	Subtot	al	
	Seco	ndarv	Performance Area*
		•	ars from the following:
	MUS		Class Piano I (Secondary Performance Area)
	MUS		Class Piano II (Secondary Performance Area)

	MUS 161K	(/ / /
	MUS 162K MUS 1710	(,
	*Must be Cla	ass Piano I and II unless the student is able to pass the Private Instruction Audition in piano.
	Ensemble	es
	Select 11 ho	urs from the following:*
	MUS 2810	
	MUS 3810	Ensemble
	*These cours student's cor each semeste	ses may be repeated for credit. Ensembles must be chosen from those appropriate to the acentration. Students majoring in music performance must enroll in an ensemble during or of full-time residence. Additionally, students are encouraged to enroll in a variety of atside of their major area of study.
	Voice Per	formance Concentration
	MUS 1400	
	MUS 1410 MUS 4420	
		f the following:
	FRE 1010 GER 1010	
	ITA 1010	•
	Subtotal	
	FRE 1020 GER 1020 ITA 1020 Additional 0	f the following to meet the General Studies Level I Communications requirement: Elementary French II
D.	.ll 4	: Marcia
Бас	chelor of	Music
Con	nposition	Concentration
		rements
	Secondary F Ensembles	Performance Area 4
	Conducting	
		dies
	Electives	
		the the 3-credit-hour multicultural requirement.
	_	uirements
	COURSES	
	MUS 1110 MUS 1120	
	MUS 1130	·

0 10	. 1
General S	
SPE 1010	Public Speaking
Additional C	General Studies classes for the degree*
	33
*See the Gen	eral Studies section of this Catalog for requirements.
chelor of	Music Education
Core Requir	ements
Ensembles	8
Music Educa	tion Courses
Choral or In	strumental Concentration
General Stud	lies
Total hours r	equired
	2 3-credit-hour multicultural requirement.
C P	•
Core Requ	uirements SEMESTER HOURS
MUS 1110	Music Theory I
MUS 1110	Music Theory Lab I
MUS 1120 MUS 1130	Music Theory II
MUS 1130	Music Theory Lab II
MUS 1220	World Music Literature
MUS 1710	Private Instruction I (Primary Performance Area)
MUS 1710 MUS 1720	Private Instruction I (Primary Performance Area)
MUS 2110	Music Theory III
MUS 2110	Music Theory Lab III
MUS 2120	Music Theory IV
MUS 2140	Music Theory Lab IV
MUS 2710	Private Instruction III (Primary Performance Area)
MUS 2720	Private Instruction IV (Primary Performance Area)
MUS 3210	Music History I
MUS 3220	Music History II
MUS 3710	Private Instruction V (Primary Performance Area)
MUS 3720	Private Instruction VI (Primary Performance Area)
Ensemble	6
	nours from the following:*
MUS 2810	Ensemble
MUS 3810	Ensemble 1
	8
	es may be repeated for credit. Students majoring in music education must enroll in the
	ble in their concentration during each semester of studio instruction or full-time resi-
	t when student teaching. Additionally, students are encouraged to enroll in a variety of
	tside of their major area of study.
	ucation Courses
MUS 2340	Foundations of Music Education
MUS 2650	Music Technology for Educators
MUS 3150	Instrumental and Choral Scoring and Arranging
MUS 3320	Supervised K-12 Music Field Experience I*
MUS 3350	General Music Methods and Materials
MUS 3390	The Inclusive Art and Music Classroom

^{**} Students must have rudimentary skills in order to enroll in Class Piano III.

	Instru	ımental	Concentration
	MUS	161A	Class Voice I
	MUS	162A	Class Voice II
	MUS	161B	Class Piano I
	MUS	162B	Class Piano II
	MUS	261B	Class Piano III
	MUS	262B	Class Piano IV
	MUS	3430	Woodwind Techniques and Pedagogy
	MUS	3480	Marching Band Techniques and Materials
	MUS	3530	Instrumental Conducting and Literature
	Subtot	al	
	Conc	eral St	udios
	MTH		Integrated Mathematics I (General Studies–Level I, Mathematics)
	SPE EDS	1010 3110	Public Speaking (General Studies–Level I, Communications)
	EDS	3200	(General Studies–Level II, Social Sciences)*
			Level II, Social Sciences)
			eneral Studies classes for the degree**
			ust be taken concurrently with MUS 3320.
	"See	tne Gen	eral Studies section of this Catalog for requirements.
Bac	chelo	or of	Arts in Music
	Core I	Require	ments
	Ensen	•	
	Electiv	es/Min	or
	Gener	al Studi	es
	Total l	hours red	quired
	¥1.6	11.	4. 2. 1
	wiusi	тишие	the 3-hour multicultural requirement.
	Core	requi	rements
	COUR	RSES	
	MUS	1110	Music Theory I
	MUS	1120	Music Theory Lab I
	MUS	1130	Music Theory II
	MUS	1140	Music Theory Lab II
	MUS	1210	European Music Literature
	MUS	1220	World Music Literature
	MUS	161B	Class Piano I
	MUS	162B	Class Piano II
	MUS	1710	Private Instruction I (Primary Performance Area)
	MUS		Private Instruction II (Primary Performance Area)
	MUS		Music Theory III
	MUS		Music Theory Lab III
	MUS	2130	Music Theory IV
	MUS	2140	Music Theory Lab IV
	MUS		Private Instruction III (Primary Performance Area)
	MUS		Private Instruction IV (Primary Performance Area)
	MUS		Music History I
	MUS		Music History II
			on elective in Music Theory, History, Literature or Pedagogy
	MUS		Senior Project

Ensembles	
Select six hou	urs from the following:*
MUS 2810	Ensemble
MUS 3810	Ensemble
*These course	s may be repeated for credit. Students are encouraged to enroll in a variety of ensembles
outside of thei	ir major area of study.
General St	udies
SPE 1010	Public Speaking
	eneral Studies classes for the degree*
	ral Studies section of this Catalog for requirements.
	omme cerem of the calabases of requirements
Minor in Mu	ısic
Required Cou	ırses
Ensembles	
Total hours re	quired
Required (Courses
COURSES	
MUS 1110	Music Theory I
MUS 1120	Music Theory Lab I
MUS 1130	Music Theory II
MUS 1140	Music Theory Lab II
MUS 1210	European Music Literature
MUS 1220	World Music Literature 3
MUS 161B	Class Piano I
MUS 162B	Class Piano II
MUS 1710	Private Instruction I (Primary Performance Area)
MUS 1720	Private Instruction II (Primary Performance Area)
Upper-Divisi	on Elective in Music Theory, History, Literature, or Pedagogy
Subtotal	
Ensembles	
	urs from the following:*
MUS 2810	Ensemble
MUS 3810	
	2
	es may be repeated for credit. Ensembles must be chosen from those appropriate to the
	is may be repeated for creatt. Ensembles mast be chosen from those appropriate to the ate instruction area.

NATIVE AMERICAN STUDIES

Department of Political Science

Native American Studies Minor

This is a minor intended for those students interested in studying Native Americans with specific focus in history, culture, politics and current issues of indigenous peoples within the United States. The minor provides an opportunity for students to bring a unique multidisciplinary perspective to their already chosen area of interest. The minor is offered by the Political Science Department. (See page 194)

REQU	IRED CO	DURSES SEMESTER HOUR	રક
NAS	1000	Introduction to Native American Studies	3
		SC 3200 Native American Politics	
Subtot	al		.6
Choos	e three o	of the following courses:	
ANT	3310	Ethnography of North American Indians	3
ANT	3610	Archaeology of North America	3
ENG	2240	Native American Literatures	3
HIS	3090	Native Americans in American History	3
NAS	3300	Land Use, Culture and Conflict (/GEG/PSC 3300)	3
Subtot	al		.9
Choos	e two of	the following courses:	
ANT	3340	Native Americans in Historical Perspective	3
ANT	3660	Ancient American Civilizations	3
ARTH	3300	Art and Cultural Heritage	3
NAS		Women of Color (/AAS/CHS/ICS/WMS 2100)	
Subtot	al		.6
Total fo	or minor	,	21

In addition to the courses listed, there may be other classes offered under the variable topic, omnibus or internship heading that are appropriate for this minor. Such classes may be substituted for courses listed above in any of the categories by the faculty member coordinating the minor within the Political Science Department. The same is true for classes transferred from other institutions.

PARENT EDUCATION

Departments of Human Services and Psychology

Parent Education Minor

The parent education minor is for students entering professions involved with children and families. It provides the necessary knowledge and skills for working with parents. Also, the program addresses a need identified in the community for people with specific preparation for the role of parent educator. Many agencies offer or are interested in offering parent education programs, yet no specific preparation for that role has been available. This minor is designed to provide students with education for that role and to give students a set of skills that are increasingly in demand.

The minor is seen as particularly appropriate for students entering family- and child-related fields, including education, health care management, human services, criminal justice (especially juvenile justice), nursing and nurse practitioner programs, psychology, sociology, social welfare, speech, and women's studies. People entering these fields may be in a position to develop and conduct parent education programs; a minor in parent education should serve them well in the employment market. Parent education happens in settings ranging from churches to industry and is not limited to educational settings in the usual sense.

The parent education minor encompasses three areas of preparation. One set of classes is intended to give students basic information necessary for effective parenting (child development, parenting techniques, family management and health care). The second facet of the program gives students the skills necessary for developing and conducting parent education programs such as group techniques and program development. The third component of the program entails actual field experience working in parent education programs. This experience is incorporated into a number of classes and is the central component of the final course in the minor. A field placement is required in the last semester. Placement opportunities include parent education in hospitals, social service agencies, public and private schools, and business and industry. Students work closely with a parent education program advisor to ensure an appropriate field placement. For more information consult an advisor in the Human Services or Psychology Departments.

REQUIRED C	OURSESSEMESTER HOURS
EDU 4070	Designing and Implementing Programs for Adult Learners
HES 3070	Parental Health Care Issues
HSP 2040	Family Systems
PAR 2050	Introduction to Parent Education
PAR 3070	Working with the Contemporary Family
PAR 4890	Parent Education Field Placement
PSY 1800	Developmental Educational Psychology
-or-	
PSY 2210	Psychology of Human Development
-or-	
PSY 3250	Child Psychology
PSY 2240	Parenting Techniques
Total	25-26

Minimum hours required for the minor are 25-26 (depending on courses selected). Such a program must include all courses required for the major and those listed here as required for the parent education minor. Approval by both departments will be necessary for such a combined program.

PHILOSOPHY DEPARTMENT

The Philosophy Department offers course work in the major culminating in a Bachelor of Arts degree. Undergraduates preparing for graduate study in philosophy should plan their academic program in close consultation with a department advisor. For all students, the major emphasizes and reinforces general skills, both critical and creative, that will serve as a basis for further studies, in a field such as law or public policy, or professional careers, including management and government. The departmental publication Philosophy at MSCD contains further particulars. including information about the course distribution areas referenced below.

A minor in Philosophy and one in Religious Studies are also offered.

Philosophy Major for Bachelor of Arts

REQUIRED COURSESSEMESTER HOURS				
(Areas One: Form & Two: Event and the Capstone Course):				
PHI 2440	Symbolic Logic			
PHI 3000	History of Ancient Philosophy			
PHI 3020	History of Modern Philosophy			
PHI 4100	Senior Seminar			
Subtotal				
Area Three:	Problem (choose one of the following courses):			
PHI 3320	Metaphysics			
PHI 3330	Epistemology			
PHI 3530	Philosophy of Mind			
Subtotal				
Area Four: N	Method (choose one of the following courses):			
PHI 3390	Aesthetics			
PHI 3400	Philosophy of Science			
PHI 3430	Philosophy of Law			
Subtotal				
	vstem (choose one of the following courses):			
PHI 3510	Phenomenology			
PHI 3550	Existentialism			
PHI 3810	Major Philosophers: Variable Topics			
Subtotal				

Area Six: Value (choose one of the following courses): PHI 3150 Social and Political Philosophy. 3 PHI 3180 Feminist Philosophy 3 PHI 3350 Ethical Theories 3 Subtotal 3 Additional lower-division electives 3 Additional upper-division electives 9 (upper-division electives should be chosen in consultation with the Department) Total 36
Minor in Philosophy
Regular Philosophy ConcentrationREQUIRED COURSES.SEMESTER HOURSPHI 1010 Introduction to Philosophy3PHI 1030 Ethics.3PHI 1110 Language, Logic and Persuasion.3Subtotal.9
Plus one of the following: PHI 3000 History of Ancient Philosophy. 3 PHI 3020 History of Modern Philosophy. 3 Subtotal. 3 Additional philosophy upper-divison electives. 9 (upper-division electives should be chosen in consultation with the Department) Total. 21
Minor in Religious Studies
REQUIRED COURSES. SEMESTER HOURS PHI 1040 Introduction to Eastern Religions 3 PHI 1050 Introduction to Western Religions 3 PHI 2040 Philosophy of Religion 3 Subtotal 9
Plus one of the following: PHI 3000 History of Ancient Philosophy. 3 PHI 3020 History of Modern Philosophy. 3 Subtotal. 3
Additional interdisciplinary upper-division electives: One of the following: ENG 3420 The English Bible as Literature*. 3 ENG 3430 Classical Mythology*. 3 ENG 3440 Myth, Symbol, and Allusion in Literature*. 3
One of the following: HIS 3770 World of Islam
Additional philosophy upper-division electives: One of the following: PHI 3410 Eastern Philosophy: Variable Topics. 3 PHI 3610 Religious Studies: Variable Topics 3 Subtotal 3 Total. 21

 $^{^{\}star}$ Course has additional prerequisites.

PHYSICS DEPARTMENT

The Physics Department offers course work leading to a bachelor of science and to a bachelor of arts degree. A minor in physics is also offered. Undergraduates preparing for graduate study in physics should take the bachelor of science in physics. Undergraduates preparing for teaching at the pre-college level should take the bachelor of arts in physics. Those undergraduates preparing to work in industry or considering graduate work in engineering should consult with the Physics Department to determine which degree to pursue.

The Physics Department is taught jointly by the faculties of MSCD and the University of Colorado at Denver and Health Sciences Center. MSCD students will receive instruction from the faculty of both institutions.

The Physics Department also offers courses in astronomy, which are designed primarily as general interest courses.

Physics Major for Bachelor of Science

REQU	IRED CO	OURSESSEMESTER HOUR	S
PHY	2311	General Physics I	4
PHY	2321	General Physics I Laboratory	1
PHY	2331	General Physics II	4
PHY	2341	General Physics II Laboratory	1
PHY	2711	Vibration and Waves	
PHY	2811	Modern Physics I	4
PHY	3011	Modern Physics II	3
PHY	3211	Analytical Mechanics	4
PHY	3411	Thermal Physics	3
PHY	3711	Physics Laboratory I	2
PHY	3811	Quantum Mechanics	3
PHY	4331	Electricity and Magnetism	4
PHY	4611	Computational Physics I	2
PHY	4711	Advanced Physics I Laboratory	
PHY	4920	Physics Senior Seminar	1
Subtot	al		
Requi	ed Ancil	lary Courses	
MTH	1410	Calculus I	4
MTH	2410	Calculus II	4
MTH	2420	Calculus III	4
MTH	3420	Differential Equations	4
Subtot	al		6

Students are urged to take one year of general chemistry and one year of electronics. It is strongly suggested that students seriously considering graduate school in physics take at least 6 more semester hours of upper-division physics courses selected in consultation with and approved by the Physics Department.

A one-year sequence of PHY 2010 - PHY 2020 - PHY 2030 - PHY 2040 may be substituted for the PHY 2311 - PHY 2331 - PHY 2321 - PHY 2341 requirements with the consent of the Physics Department.

Physics Major for Bachelor of Arts

REQU	TRED CO	OURSES SEMESTER HOURS
PHY	2311	General Physics I
PHY	2321	General Physics I Laboratory
PHY	2331	General Physics II
PHY	2341	General Physics II Laboratory

PHY	2811	Modern Physics I		
PHY	2711	Vibration and Waves		
PHY	3011	Modern Physics II		
PHY	3711	Physics Laboratory I		
PHY	4921	Physics Senior Seminar		
Subto	al			
Electiv	res			
A minimum of 8 additional semester hours of upper-division physics courses, two (2) of which must be from either PHY 4611 or PHY 4711.				
		8		
Total.	Total			
Required Ancillary Courses for Bachelor of Arts				
MTH		Calculus I		
		Calculus II		
Total Ancillary Courses				

A one-year sequence of PHY 2010 - PHY 2020 - PHY 2030 - PHY 2040 may be substituted for the PHY 2311 - PHY 2331 - PHY 2321 - PHY 2341 requirements with the consent of the Physics Department.

Minor in Physics

REQU	REQUIRED COURSES			
PHY	2311	General Physics I		
PHY	2321	General Physics I Laboratory		
PHY	2331	General Physics II		
PHY	2341	General Physics II Laboratory		
PHY	2811	Modern Physics I		
Electiv	res			
A mir	nimum o	of 5 additional semester hours in upper-division physics courses must be selected in		
consul	consultation with and approved by the Physics Department			
Total	Total			
Required Ancillary Courses for a Minor				
MTH	1410	Calculus I		
MTH	2410	Calculus II		
Total A	Ancillary	Courses8		

A one-year sequence of PHY 2010 - PHY 2020 - PHY 2030 - PHY 2040 may be substituted for the PHY 2311 - PHY 2331 - PHY 2321 - PHY 2341 requirements with the consent of the Physics Department.

POLITICAL SCIENCE DEPARTMENT

The study of political science is mainly the study of governments: their social and economic environments, how they are organized, how and why they decide upon and carry out policies, and how nation-states interact on the world scene. It also includes the study of political ideas and values, past and present, citizen behavior, and recent trends in methods of research and analysis aimed at enlarging our knowledge of political processes.

In this sense, the Political Science Department provides students with the perspective and background necessary to understand the complex and often confusing reality of politics.

To focus that search for understanding, each political science major will select a concentration either in American politics or international/comparative politics. Course listings for each area are available in the department office.

The department also houses the College's Public Administration program and the Native American Studies minor program.

Prelaw

The Political Science Department also offers prelaw advising to all students at the College, regardless of a student's major field of study. If you are thinking of applying to law school or would like more information on the LSAT or law schools, please contact the College's prelaw advisor in the department.

Political Science Major for Bachelor of Arts

REQU	JIRED C	OURSES SEMESTER HOU	RS
PSC	1010	American National Government	3
PSC	1020	Political Systems and Ideas	. 3
PSC	2020	Conducting Political Analysis	
	-or-		
PSY	2310	Introduction to Statistics for Social and Behavioral Sciences	3
PSC	3050	Political Theory	3
PSC	4020	Special Studies (Senior Experience)	
Subto	tal		15
Electi	Wes		
		of 21 additional semester hours of political science must be completed. At least 18	
		ours must be upper-division courses (3000- and 4000-level) and must be approved	
		11	
		ment. Generally, students may apply only 12 hours of credit in nonclassroom	
cours	es towar	d the major as approved electives.	
			21
Total			24

Course Distribution and Area Concentration

Of the 21 elective hours in political science, 12 must be in the student's primary area of study: American politics or international/comparative politics. A minimum of 3 hours must be drawn from the remaining area of concentration and 6 hours can be selected at the student's discretion.

Political Science Major with Teacher Licensure, page 355.

Political Science Minor

REQU	TRED (COURSES	SEMESTER HOURS
PSC	1010	American National Government	
PSC	1020	Political Systems and Ideas	
		Political Theory	
Subto	tal		
9 of tl appro	nimum nese 12 ved by	of 12 additional semester hours are required in political 2 hours must be in upper-division courses (3000- and 4 the department. Generally, students may apply only 6 hours toward the major as approved electives.	4000-level) and must be
Subto	tal		
Total.			

Public Administration Minor

Public administration is the study of governmental organizations, their management, and how government policies are formulated and carried out. The Political Science Department offers a minor in public administration available to students interested in a career in government service, to students presently

employed in government who wish to increase their skills and job status, and to students planning to take postgraduate work in public administration.

REQU	IRED CO	DURSES SEMESTER HOURS	;
Basic o	courses r	required for all public administration minors:	
PSC	1010	American National Government	;
PSC	3020	Introduction to Public Administration	;
Subtot	al	$. \dots \dots$	5
Two o		owing courses:	
PSC	3220	Public Policy	;
PSC	3240	Intergovernmental Relations	;
PSC	3260	Politics of Budgeting	;
PSC	3280	Public Personnel Administration	;
ACC	3200	Governmental Accounting	;
Subtot	al		5
		owing courses:	
CIS	2010	Computer Applications for Business	;
MTH	1210	Introduction to Statistics	ŀ
Intern	ship PSC	C 4120 or Substitute Course (minimum)	;
Total		18_10)

A governmental internship will be required of all students for a minimum of one semester and a minimum of three semester hours.

It is recommended that public administration minors also take a course in both public speaking and in technical writing.

Also available to students is a program of courses leading to a recognition of completion award in public administration presented by the Political Science Department. Students may earn the award by successfully completing a selection of courses amounting to 21 semester hours. Contact the Political Science Department for details.

Internships

In addition to scheduled classes, political science students are encouraged to enroll for at least one off-campus internship. Students may receive credit for practical work experience in various areas of government service. Placement in a governmental position may be initiated by the student, Cooperative Education, or the Political Science Department. Interested students should contact the Political Science Department for details.

Courses with Variable Topics

Not listed among the regular courses are a variety of topics courses and self-paced courses that give the student a greater variety of choice. Please be sure to check the current online *Class Schedule* on MSCD's Web site (http://www.mscd.edu) for these classes, which can be repeated for credit under different titles.

Washington, D.C. Program

During the summer session, the department offers a special program in Washington, D.C., aimed at providing students with a unique perspective on the nation's political system. The program combines on-campus meetings and relevant readings with a module held in Washington. Please contact the department about this program. Also, the department works with students interested in an internship in Washington, D.C., during summer, fall, or spring semesters.

Golda Meir Center for Political Leadership

The Golda Meir Center for Political Leadership is connected to the historic Golda Meir House on the Auraria campus. The center is organized and operated through the Political Science Department. The center's purpose is to develop programs that examine the role of leaders and leadership at all levels of the political process; blend together theoretical and applied politics; and emphasize voices and perspectives that expand the boundaries of traditional leadership analysis.

Certificate Program Available:

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

Public Administration

COUR	SES		S
PSC	1010	American National Government	3
PSC	3000	American State and Local Government	3
PSC	3020	Introduction to Public Administration	3
PSC	3260	Politics of Budgeting	3
PSC	3280	Public Personnel Administration	3
Electiv	e Requii	rements (Choose two of the following)	
PSC	3160	Readings in Political Science and Public Administration1-	3
PSC	3220	Public Policy	3
PSC	3240	Intergovernmental Relations	3

For additional requirements, call Dr. Robert Hazan, 303-556-3412.

NATIVE AMERICAN STUDIES MINOR, SEE PAGE 189 OF THIS CATALOG.

PSYCHOLOGY DEPARTMENT

Psychology Department student outcome goals:

Upon completion of a degree program in psychology students will be able to:

- Demonstrate knowledge of the major historical contributions and themes, basic principles, current issues and emerging developments in Psychology.
- Demonstrate the ability to communicate knowledge of the field of psychology both orally and in writing, the latter following the American Psychological Association guidelines.
- Demonstrate the ability to relate knowledge of human behavior and mental processes to problems and issues in other disciplines.
- Demonstrate an enduring respect for the use of critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.
- Demonstrate information competence and the ability to use computers and other technology as required by Psychology.
- Demonstrate an understanding of and ability to apply the fundamentals of research methodology, research ethics, and statistical analysis to the interpretation and evaluation of research.
- Recognize, understand, and respect the complexity of all aspects of human diversity, both local and global.
- Demonstrate a realistic application of psychological knowledge, skills, and values in occupational pursuits or graduate education.

The major or minor program is to be planned in consultation with an advisor from the Psychology Department by the beginning of the junior year or upon transfer into the department.

Psychology Major for Bachelor of Arts

REQU	JIRED C	OURSESSEMESTER HOURS
PSY	1001	Introductory Psychology
PSY	2310	Introduction to Statistics for Social and Behavioral Sciences
PSY	2320	Inferential Statistics
PSY	3310	Psychological Research Methods I
PSY	3320	Psychological Research Methods II

PSY	4510	History and Systems of Psychology
In add	lition, st	udents must choose one course from each category:
Social		
PSY	2410	Social Psychology
PSY	3050	Psychology of Gender
PSY	3450	Industrial/Organizational Psychology
E	:4.1	, ,,
PSY	imental 3510	Behavioral Neuroscience
PSY	3520	Sensation and Perception
PSY	3530	Psychology of Learning. 3
PSY	4570	Cognitive Psychology
P31	43/0	Cognitive Psychology
Clinic	al/Perso	•
PSY	3000	Theories of Personality
PSY	3100	Introduction to Clinical/Counseling Psychology
PSY	3620	Abnormal Psychology
Devel	opmenta	ıl
PSY	2210	Psychology of Human Development
PSY	3250	Child Psychology
PSY	3260	Psychology of Adolescence
PSY	3270	Adulthood and Aging
Subtot	al	
Total.		
hours than 6 no me cholog Subtot	in psychological in psy	ninimum of 15 additional semester hours in psychology courses selected in with and approved by a Psychology Department advisor, making a total of 45 hology. No more than 9 of these hours may be PSY 2950 courses, and no more e hours may be PSY 4980 and no more than 6 hours may be in PSY 3970 and 6 hours may be in PSY 2990/4990. The maximum number of hours in psydent may count toward a bachelor of arts degree is 60.
Addit	ional Re	quirement
BIO	1000	Human Biology for Non-Majors
-	-or-	01
BIO	1080	General Introduction to Biology
BIO	1090	General Introduction to Biology Laboratory
(Or eauiv	alent courses

This additional requirement may be applied toward General Studies, the minor, or degree electives.

Students considering advanced degrees should be aware that, in addition to course work in the areas listed above, graduate programs often have specific undergraduate course prerequisites. Required or recommended courses, depending on the graduate program, include Theories of Personality, Abnormal Psychology, Psychology of Learning, Child Psychology, Behavioral Neuroscience, Industrial/Organizational Psychology, Sensation and Perception, Cooperative Education in Psychology, Teaching of Psychology, and Advanced Statistics. Therefore, students should consult with a Psychology Department advisor to choose appropriate psychology electives.

In meeting the requirements for the psychology major (described above), transfer students must take a minimum of 15 semester hours of psychology course work at MSCD, of which at least 9 must be upper-division credits.

Transfer students must have completed both semesters of a two-semester introductory psychology course for equivalence to exist. Three hours will count toward the major or minor; three, as electives to

graduate. If a student has taken only one semester of a two-semester introductory course and takes PSY 1001 at MSCD, the transfer introductory credits will <u>not</u> count toward the degree.

NOTE: The Psychology Department does not accept correspondence study courses toward the total number of semester hours required for a major or minor. However, correspondence study credit can count toward the degree. Students who wish to use psychology courses to fulfill General Studies, college degree requirements or an interdisciplinary major or minor must earn additional hours to fulfill the total hours for either the major or minor in psychology. The only exceptions are: PSY 4510, History and Systems of Psychology, which may be used as a Senior Experience without being replaced in the major or minor; and PSY 3170, Multicultural Service Learning, or PSY 3700, Psychology of Group Prejudice, which may be used to meet the Multicultural requirement without being replaced in the major or minor. Please consult with an advisor.

Minor in Psychology

REQU	IRED C	COURSES	SEMESTER HOURS
PSY	1001	Introductory Psychology	3
PSY	2310	Introduction to Statistics for Social and Behavioral	Sciences
Subto	tal		6
any tv	vo of th	to these two required courses, students must take ne four categories listed on the previous page und lity, and Developmental.	
Subto	tal		6
Electi	ve Cours	rses	
In add	dition to	o the required courses, students must take 12 semes	ster hours of PSY courses chosen
from	those list	sted under the major or other department offerings.	
Total .	Hours Re	Required for the Minor	24
semes	ster hour	n 6 semester hours may be PSY 2950 variable topic urs may be PSY 3970 Practicum. At least 3 courses (ear division, and 6 of those hours must be taken at M	9 semester hours) in the minor

HUMAN DEVELOPMENT MAJOR, SEE PAGE 1520F THIS CATALOG.

PARENT EDUCATION MINOR, SEE PAGES 185 AND 281 OF THIS CATALOG.

THE SOCIAL WORK DEPARTMENT

preceding Psychology Department section.

www.mscd.edu/~socwrk

Social Work is a professional practice. The primary educational goal of the major is preparation for generalist social work practice in social agencies. Through professional foundation courses and electives, students acquire skills, knowledge, values, and ethics required for beginning Social Work practice. A minor is not required for this major.

Statement of the Rationale and Mission-The Social Work Major

The Social Work Department at MSCD is committed to educating and training social work professionals in generalist social work practice so that they may provide direct and indirect services to minority and majority clients. The focus of the program is on urban problems that often affect oppressed minorities representing people of color (African American, Hispanic American, Native American, Asian American) and other diverse populations (women and children, gays, lesbians, transgenders and bisexuals, the developmentally delayed and the aging). The program is committed to helping those individuals in need and working toward changing the social, economic, and political context that often fosters painful and socially unjust human conditions.

The needs of metropolitan Denver and other areas warrant a generalist perspective in which students are able to identify the destructive impact of negative interactions between individuals and systems in their environment. Such interactions often have organizations, communities and larger systems. Through professional foundation courses and electives, students acquire skills, knowledge, values and ethics required for beginning Social Work practice. Clients are seen as partners in the process of working toward mutually agreed upon goals rooted in generalist practice. Using problem solving methods aimed at individual and group empowerment, the impact of historic and current negative valuations of diverse, populations at risk may be slowly mitigated.

Goals of the Social Work Major

The goals of the Social Work Department reflect the urban mission of MSCD and the purposes of the social work profession:

- 1. To prepare students for generalist social work practice with diverse, urban populations at risk including individuals, families, groups, organizations, communities, and larger systems.
- 2. To prepare students for entry level, professional practice in social agencies that address the needs of diverse, urban populations.
- 3. To provide students with the knowledge and skills for understanding the dynamic nature of social problems, social policies, social agencies, and social change in the context of the urban environment as an evolving ecological system.
- 4. To provide an ethical foundation to guide students in beginning and continued professional social work practice in keeping with social work values.
- 5. To prepare graduates to further develop their potential for life-long learning and continued professional growth and development.

Accreditation

The Social Work major is accredited with the Council on Social Work Education and received initial accreditation in February 1997.

Advanced Standing in Graduate School

Students who graduate with a B.S. in social work from an accredited undergraduate social work program may apply for advanced standing (where available) in social work graduate programs (M.S.W.). This often means that students may complete their M.S.W. degree in one year instead of two years.

The Social Work Major for Bachelor of Science

Liberal Arts Perspective Courses

Social Work majors are required to take the following courses outside the Social Work Department in preparation for the major. All courses must be completed with a grade of "C" or better. Students must have completed or must indicate at the time of admission, the plan to complete these courses prior to the fall semester for which students have been accepted:

Required Courses

(Required before the Fall semester in which student begins the Social Work Program)

COURSES	
ANT 1310	Introduction to Cultural Anthropology
BIO 1000	Human Biology for Non-Majors
-or-	
BIO 2310	Human Anatomy and Physiology
MTH 1210	Introduction to Statistics
PSC 1010	American National Government
PSY 1001	Introductory Psychology
SOC 1010	Introduction to Sociology

	SPE Many	-or- 1710 of the ab	Interpersonal Communication
Core	e Cur	riculu	m
	REQU	IRED CO	DURSESSEMESTER HOURS
	(Requi SWK SWK Profes	ired befo 1010 1020 ssional f	Social Work Courses ore the Fall semester in which student begins the Social Work Program) Introduction to Social Welfare and Social Work
	SWK		students have been accepted into the Social Work Major): Human Behavior and the Social Environment I
	SWK		Human Behavior and the Social Environment II
	SWK		Generalist Practice I
	SWK	3780	Social Welfare Policy
	SWK	3790	Research in Social Work
	SWK	4010	Generalist Practice II
	SWK	4250	Exploring Current Social Work Issues
	SWK	4410	Advanced Cross–Cultural Social Work Issues
	SWK	4850	Integrative Seminar
	Subtot	al	

Areas of Career Concentration for Social Work Majors

Social Work majors may select one area of concentration to further prepare them for their career goals. The areas of concentration relate to groups identified in the Social Work Department's mission statement: women and children, gays and lesbians, the aging and the developmentally disabled.

All Social Work majors must complete the required introductory and professional foundation courses for the major as previously listed. To complete a career concentration, students must complete the elective credits as listed for each concentration area and must complete their senior field experience in an agency serving the concentration population. The total credits for all career concentration areas are 19, nine social work elective credits and 10 professional field experience credits as listed below. Students may complete only one concentration area.

No Area of Concentration

SPE

1010 Public Speaking

Social Work majors who do not wish to select a concentration to focus their career must select a minimum of nine credit hours from any of the social work major, 3000 or upper-division elective courses listed below for the concentrations. Students who do not select a concentration should register for all courses using the number 0 as the fourth digit of the course rather than a letter A-G.

REQUIRED COURSES	SEMESTER HOURS
Social Work Core	
Social Work Electives	9
SWK 4790 Professional Field Experience I	5
SWK 4810 Professional Field Experience II	
Total	54

Child Welfare Concentration

Social Workers assume primary roles in providing intake and ongoing services in all areas of child welfare. The child welfare concentration is designed for students choosing a career as a caseworker and/or

supervisor in child welfare services. (Non-majors must have permission of the Social Work Department Chair before enrolling in these courses.)

REQUIRED COURSES	REQU
Social Work Core	Social
SWK 3100 Child Welfare and the Law	SWK
SWK 3150 Social Work and Child Maltreatment	SWK
SWK 3200 Social Work with Urban Families	SWK
SWK 479A* Professional Field Experience I (Child Welfare)	SWK
SWK 481A* Professional Field Experience II (Child Welfare)	SWK
Total	Total

^{*}Must be completed in an approved county Department of Human Services B child protection unit.

Since 1995 over \$1,000,000 in Child Welfare Caseworker stipends through the Colorado Department of Human Services have been awarded to MSCD seniors who are social work majors and who have completed the child welfare career concentration courses. Stipends in amounts ranging from \$8,000-\$14,000 are awarded to select recipients who are required to complete their professional field experience in a public child welfare agency. A required work pay-back of one year as a paid caseworker in public child welfare must be completed following graduation as a social work major.

Developmental Disabilities Concentration

Families with children and/or parents with developmental disabilities are often in need of ongoing family supports. Family support, family-centered service planning and coordination are needed as families negotiate a complex and fragmented service delivery system. This career concentration is designed for students choosing a career in the area of developmental disabilities services.

REQUIRED C	OURSESSEMESTER HOURS
Social Work C	Core
SWK 3000*	Applied Legal Issues in Social Work
SWK 3020*	Case Management in Social Work Practice
-or-	
SWK 3400*	Social Work Macro Practice
-or-	
SWK 3450*	Mutual Aid Groups in Social Work
SWK 3250	Social Work and Developmental Disabilities
SWK 3300	Social Work with Parents with Developmental Disabilities
SWK 479B	Professional Field Experience I (Developmental Disabilities)
SWK 481B	Professional Field Experience II (Developmental Disabilities)
Total	54

*Major papers and/or assignments will reflect student's area of concentration.

Early Intervention Concentration

This concentration recognizes the importance of providing, safe, nurturing and stimulating environments during the early, crucial phases of child development from birth through five years of age and the key role social workers have in assisting families in achieving these goals. This concentration is designed for students choosing a career in the area of infant stimulation, early intervention and early education services.

REQUIRE	COURSES	SEMESTER HOURS
Social Work Core		
SWK 300	0* Applied Legal Issues in Social Work	
SWK 302	0* Case Management in Social Work Practice	
-or		
SWK 340	0* Social Work Macro Practice	
-or		
SWK 345	0* Mutual Aid Groups in Social Work	
SWK 370	O Social Work and Early Intervention: Children Birth	h Through Five 4

SWK	479C	Professional Field Experience I (Early Intervention)	5
SWK	481C	Professional Field Experience II (Early Intervention)	5
Total.			54

^{*}Major papers and/or assignments will reflect student's area of concentration.

Child and Adolescent Mental Health Concentration

Social workers often support families and provide services to children and adolescents with an array of emotional and behavioral problems. Mental health policies and practices including assessment, diagnosis, intervention and evaluation of mental health services for children and their families will be presented from a social work perspective. This concentration is designed for students choosing a career in the area of mental health services for children and adolescents.

REQUIRED C	OURSESSEMESTER HOURS
Social Work C	ore
SWK 3000*	Applied Legal Issues in Social Work
SWK 3010	Social Work Services for Children and Adolescents
SWK 3020*	Case Management in Social Work Practice
-or-	
SWK 3400*	Social Work Macro Practice
-or-	
SWK 3450*	Mutual Aid Groups in Social Work
SWK 479D	Professional Field Experience I (Child & Adolescent Mental Health) 5
SWK 481D	Professional Field Experience II (Child & Adolescent Mental Health) 5
Total	

^{*}Major papers and/or assignments will reflect student's area of concentration.

Gay and Lesbian Concentration

There are many challenges facing gay and lesbian individuals, families and groups in today's society. The strengths, stresses and life style choices of this population at risk and the role of social workers with individuals, families, groups, organizations and communities are the major themes of this area. The gay and lesbian career concentration is designed for students choosing a career in gay and lesbian health, mental health and community services.

	URSES		
Social Work Core			
SWK 3000*	Applied Legal Issues in Social Work		
SWK 3020*	Case Management in Social Work Practice		
-or-			
SWK 3400*	Social Work Macro Practice		
-or-			
SWK 3450*	Mutual Aid Groups in Social Work		
SWK 3500	Foundations for Social Work Practice with Gays and Lesbians		
SWK 479E	Professional Field Experience I (Gay and Lesbian)		
SWK 481E	Professional Field Experience II (Gay and Lesbian)		
Total	54		
*Major papers a	*Major papers and/or assignments will reflect student's area of concentration.		

Women Concentration

In today's society, there is an increasing awareness of the need for specialized generalist social work training and commitment to assisting women in overcoming barriers, identifying strengths and supporting goal attainment in a patriarchal society. Social policies and common issues facing women today are explored. Current social work strategies are evaluated from a feminist social work perspective. This

concentration is designed for students choosing a career in the area of women's health, mental health and welfare services.

		OURSES	
Social	Work C	Core	
SWK	3000*	Applied Legal Issues in Social Work	1
SWK	3020*	Case Management in Social Work Practice	
	-or-		
SWK	3400*	Social Work Macro Practice	
	-or-		
		Mutual Aid Groups in Social Work	
SWK		Social Work with Women	
SWK	479F	Professional Field Experience I (Women)	
SWK	481F	Professional Field Experience II (Women)	
Total.			

Aging Concentration

Social Workers provide a variety of supports and services to elderly individuals and their families. Individual needs, strengths, family supports, use of community resources and knowledge of social policies that impact this population are the major themes. This concentration is designed for students choosing a career in aging, health, mental health, home health, and long term care services.

REQUIRED COURSESSEMESTER HO			
	Social	Work C	ore
	SWK	3000*	Applied Legal Issues in Social Work
	SWK	3020*	Case Management in Social Work Practice
		-or-	
	SWK	3400*	Social Work Macro Practice
		-or-	
	SWK	3450*	Mutual Aid Groups in Social Work
	SWK	3030	Social Work with the Aging
	SWK	479G	Professional Field Experience I (Aging)
	SWK	481G	Professional Field Experience II (Aging)
			54
			1, , , , , , , , , , , , , , , , , , ,

*Major papers and/or assignments will reflect student's area of concentration.

Multicultural Requirement

Social work majors are required to take two multicultural classes outside the Social Work Department. Both classes must focus on one specific ethnic minority (African American, Hispanic, Native American, or Asian American). One must be upper division. For a list of approved multicultural courses, please contact the Social Work Department at 303-556-3474.

Admission of Social Work Majors

Students should declare social work as their major when they enter MSCD. To complete the major, students must apply to the Social Work Department for acceptance into the major. Students should have completed or be enrolled in the liberal arts perspective courses and the introductory social work courses when applying for the social work major. Students are accepted once a year. Applications are available February 1 and are due March 1 of each year. Students begin the required professional foundation courses in the fall semester only. Students may not begin the professional foundation courses in the spring semester.

Life Experience Credit-Social Work Major

There is no credit given for college level learning gained through life experience that may be used toward the social work major.

^{*}Major papers and/or assignments will reflect student's area of concentration.

Minor in Family Support in Social Work Minor and Certificate of Completion in Family Support in Social Work

www.mscd.edu/~socwrk

The Family Support in Social Work Minor/Certificate of Completion provides knowledge and understanding of family systems theory and family life developmental models. It provides the basis for supporting traditional and non-traditional families, including case management and service coordination in a variety of service delivery areas. An approved agency field experience of 135 hours is required and may be completed in the student's work setting or as a volunteer.

The minor/certificate of completion recognizes the completion of a selected set of courses that focus on a particular career concentration that supports families through social work principles and practices. It is designed for professionals and beginning professionals wishing to enter the field or to enhance their family social work support skills.

The Family Support in Social Work Certificate of Completion is the same as the Family Support in Social Work Minor but does not require that students complete a degree. All information about the Family Support in Social Work Minor applies to the certificate of completion. Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

The minor students are referred to as beginning professionals. (Social work majors are referred to as generalist social workers.) The knowledge and skills of minor students will enable them to perform important agency roles such as case aides, paraprofessionals, service coordinators, parent educators, parent advocates, home visitation specialists, etc. These courses are open to other MSCD minors, majors and non-degree-seeking students wishing to supplement their education.

In addition to completing the required courses listed below, minors must select one concentration and complete the concentration course(s) including SWK 3990 *Agency Experience II* in an agency serving the concentration population. Minors may complete only one concentration.

Concentrations are:

- A. Family Preservation Services
- B. Developmental Disabilities Services
- C. Early Intervention Services: Birth through Five
- D. Child and Adolescent Mental Health Services
- E. Gay and Lesbian Services
- F. Women's Services
- G. Aging Services

Family Support in Social Work Minor

Core Curriculum

REQU	IRED CO	DURSESSEMESTER HOURS
SWK	1010	Introduction to Social Welfare and Social Work
SWK	1020	Introduction to Agency Experience
SWK	2100	Introduction to Family Social Work
SWK	2150	Social Work: The Helping Process
SWK	2160	Record Keeping for Public and Private Agencies
Total.		

Concentrations for Family Support in Social Work Minors

A. Family Preservation Services

COUR	SES		RS
amily	Suppor	t in Social Work Core	11
SWK	3000*	Applied Legal Issues in Social Work	1

SWK 3020	* Case Management in Social Work Practice	
SWK 3300	Social Work with Parents with Developmental Disabilities	
SWK 3800	Family Preservation in Social Work	
SWK 399A	Agency Experience II (Family Preservation Services)	
Total	24	
*Major papers and/or assignments will reflect students' area of concentration		

Case Aid Child Welfare stipends provided by the Colorado Department of Human Services have been awarded since 2000 to current public child welfare employees who are enrolled in the Family Support in Social Work Minor/Certificate of Completion Program. Stipends in the amount of \$3,000 are awarded to selected recipients who are required to complete SWK 399A *Agency Experience II* in public child welfare agencies. A required work pay-back of one year as a paid worker in public child welfare must be completed following completion of the Family Support in Social Work Minor/Certificate of Completion Program.

B. Developmental Disabilities Services

COURSES	
Family Supp	ort in Social Work Core
SWK 3000*	Applied Legal Issues in Social Work
SWK 3020*	Case Management in Social Work Practice
SWK 3250	Social Work and Developmental Disabilities
SWK 3300	Social Work with Parents with Developmental Disabilities
SWK 399B	Agency Experience II (Developmental Disability Services)
Total	24
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^{*}Major papers and/or assignments will reflect students' area of concentration

C. Early Intervention Services

COURSES SEMESTER HOURS
Family Support in Social Work Core
SWK 3000 Applied Legal Issues in Social Work
SWK 3020 Case Management in Social Work Practice
SWK 3700 Social Work and Early Intervention: Children Birth Through Five 4
SWK 399C Agency Experience II (Early Intervention Services)
Total 24

D. Child and Adolescent Mental Health Services

COURSES	SEMESTER HOURS		
Family Suppo	rt in Social Work Core		
SWK 3000*	Applied Legal Issues in Social Work		
SWK 3010	Social Work Services for Children and Adolescents		
SWK 3020*	Case Management in Social Work Practice		
SWK 399D	Agency Experience II (Child and Adolescent Mental Health)		
Total	24		
STATE OF THE CONTRACT OF THE C			

^{*}Major papers and/or assignments will reflect students' area of concentration

E. Gay and Lesbian Services

COUR	SES	
Family	Suppor	rt in Social Work Core
SWK	3000*	Applied Legal Issues in Social Work
SWK	3020*	Case Management in Social Work Practice
SWK	3500	Foundations for Social Work Practice with Gays and Lesbians 4
SWK	399E	Agency Experience II (Gay and Lesbian)
Total.		

^{*}Major papers and/or assignments will reflect students' area of concentration

F. Women's Services

COUR	SES		JRS
Family	Suppor	rt in Social Work Core	11
SWK	3000*	Applied Legal Issues in Social Work	. 1
SWK	3020*	Case Management in Social Work Practice	. 4
SWK	3600	Social Work with Women	. 4
		Agency Experience II (Women's Services)	
Total.	. .		.24

G. Aging Services

COURSI	ES	
Family S	Suppor	t in Social Work Core
SWK 3	3000*	Applied Legal Issues in Social Work
SWK 3	3020*	Case Management in Social Work Practice
SWK 3	3030	Social Work with the Aging
SWK 3	399G	Agency Experience II (Aging Services)
Total		

^{*}Major papers and/or assignments will reflect students' area of concentration

Enrollment and Completion Requirements for Family Support in Social Work Minor and Certificate of Completion Program

All minor and certificate students must submit an Enrollment Packet to the Social Work Department prior to course registration. Students will receive written acceptance from the Social Work Department. Many certificate minor courses are offered annually. SWK 1010 and SWK 1020 are required within the first semester and students are required to sign an agreement of completion form when applying to program to ensure appropriate sequencing of classes. Completion models and application materials are available in the Social Work Department and on the department's website, www.mscd.edu/~socwrk.

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

All minor students must receive course grades of "C" or better and must have a grade point average of 2.5 or above in the courses that compose the Family Support in Social Work Minor to successfully complete it.

Changing from the Social Work Minor or Certificate to the Social Work Major

Family Support in Social Work Minors and Certificate of Completion students who wish to continue into the social work major may count 13 of the 24 required credits courses toward the major: SWK 1010, SWK 1020, SWK 3000, SWK 3020, and the concentration course(s). The remaining 11 credits would count toward the 120 credits required of all students graduating from MSCD.

SOCIOLOGY

Department of Sociology, Anthropology and Behavioral Science

Sociology is the study of society in all of its aspects, from individuals to large organizations. The sociology major emphasizes the applied aspects of the field of sociology. Applied sociology is the use of sociological theory and methods to analyze issues and solve practical problems that exist in the every day social world. This means students majoring in sociology will be able to apply what they have learned in a variety of work-related settings or go to graduate school. Contact the Sociology, Anthropology and Behavioral Science Department for additional information.

^{*}Major papers and/or assignments will reflect students' area of concentration

A major in sociology requires that students take and pass 39 hours in sociology, with a minimum of a "C" in all sociology courses taken. The student majoring in sociology will take 21 required hours and 18 elective hours, for a total of 39 hours in the discipline. At least 12 upper-division semester hours in sociology must be completed at MSCD by students majoring in sociology.

Sociology Major for Bachelor of Arts

REQUIRED COU	JRSESSEMESTER HOURS
SOC 1010 In	stroduction to Sociology
SOC 2600 Th	he Art and Craft of Sociological Writing
SOC 3320 So	ociological Theory: Past and Present
SOC 3590 So	ocial Statistics
SOC 3600 Re	esearch in the Social Sciences
SOC 4600 Ac	dvanced Research in the Social Sciences
-or-	
SOC 4710 Ap	pplied Sociology
Social Stratification	on Elective (one course)
Total	21

Electives: A minimum of 18 additional semester hours in sociology are required to complete the major. Students may choose as electives any additional courses offered in sociology. The department recommends that the student's choice of electives be made in consultation with a department advisor.

Social Stratification Elective:

Choose one course from the list below.

COU	RSES	SEMESTER HOURS
SOC	3090	Urban Sociology
SOC	3220	Prejudice and Discrimination in Contemporary Society
SOC	3240	Poverty in America
SOC	3430	Gender and Society
SOC	3710	Politics and Power
SOC	3810	Population Issues
SOC	4200	Social Stratification and Inequality

Applied Sociology Electives:

Applied sociology is the primary focus of the sociology major. The applied focus of the sociology major's required courses can be extended through the selection of the applied sociology electives listed below. These courses emphasize the practice of sociology and the application of sociology to social issues which emphasize practical skills, knowledge, and theories that the sociologist can use outside of the academic environment. Applied sociology includes fieldwork in government, business, nonprofits, and other organizations and agencies.

The following are courses specifically designed to meet these criteria:

COURSES	
SOC 3090	Urban Sociology
SOC 3080	Social Action Through Art
SOC 3810	Population Issues
SOC 3750	Social Change
SOC 3770	Society and the Environment
SOC 4600	Advanced Research in the Social Sciences
SOC 4710	Applied Sociology

General Sociology Electives:

As an alternative to the applied sociology focus, students may choose instead to create a program of elective hours that meets their own needs and interests. It is recommended that students build an area

of emphasis with the help of a sociology advisor. Students should, however, feel free to create their own list of classes that meet the necessity of taking 18 additional elective hours in sociology. Possible areas of emphasis are listed below.

Suggested Areas of Emphasis:

The F	Family	
COU	RSES	
SOC	3400	Childhood and Adolescent Socialization
SOC	3410	The Family in Transition
SOC	3440	The Black Family
SOC	3460	Sociology of Sexuality
SOC	3470	The Chicano Family
Medi	cine and	d Health
COU	RSES	
SOC	1040	Introduction to Social Gerontology
SOC	3040	Contemporary Issues in Gerontology
SOC	3100	Death and Dying
SOC	3800	Health and Healers
SOC	3830	Mental Disorders
Socia	l Action	
COU	RSES	SEMESTER HOURS
SOC	2010	Current Social Issues
SOC	3080	Social Action Through Art
SOC	3090	Urban Sociology
SOC	3730	Mass Media and Social Behavior
SOC	3810	Population Issues
SOC	3750	Social Change
SOC	4710	Applied Sociology
Socia	l Devian	ice
COU	RSES	
SOC	2010	Current Social Issues
SOC	2500	Deviant Behavior in Society
SOC	3500	Criminology
SOC	3510	Juvenile Delinquency
SOC	3550	Sociology of Law
SOC	3830	Mental Disorders
Social	l Stratifi	cation
COU		
SOC	3090	Urban Sociology
SOC	3220	Prejudice and Discrimination in Contemporary Society
SOC	3240	Poverty in America
SOC	3430	Gender and Society
SOC	3710	Politics and Power
SOC	3810	Population Issues
SOC	4200	Social Stratification and Inequality
		ommunity
COU		
SOC	3090	Urban Sociology
SOC	3130	The Chicana/o Community
SOC	3140	The Black Community
SOC	3220	Prejudice and Discrimination in Contemporary Society
SOC	3810	Population Issues

Gerontology Concentration

Gerontology deals with the causes and consequences—biological, psychological, and social—of aging. Drawing from many fields of academic study, this concentration prepares the student for professional and paraprofessional careers in human services for the aging population.

The gerontology concentration requires a student to complete the 21 hours of required courses in the sociology major and 39 credit hours of electives from the gerontology concentration listed below for a total of 60 credit hours. Electives within this concentration should be selected in consultation with an advisor in the department. No minor is required with this concentration.

ELEC'	TIVES V	VITHIN THE CONCENTRATIONSEMESTER HOUR	S
HES	1050	Dynamics of Health	3
NUT	2040	Introduction to Nutrition	3
PSY	2160	Personality and Adjustment	3
PSY	2210	Psychology of Human Development	3
PSY	2270	Death and Dying	3
PSY	3270	Adulthood and Aging	
PSY	3980	Cooperative Education: Psychology	
SOC	1040	Introduction to Social Gerontology	3
SOC	3040	Contemporary Issues in Gerontology	3
SOC	3090	Urban Sociology	3
SOC	3100	Death and Dying	3
SOC	3240	Poverty in America	
SOC	3410	The Family in Transition	3
SOC	3800	Health and Healers	3
SOC	3810	Population Issues	3
SOC	3830	Mental Disorders	3
SOC	4700	Advanced Field Internship	3
SPE	4760	Communication and the Elderly	3
SWK	3030	Social Work with the Aging.	4

Minor in Sociology

A total of 18 hours is required for the Sociology Minor. Required courses are SOC 1010 and one Social Stratification Elective course (see list above). A minimum of 12 additional semester hours in sociology courses, selected in consultation with a department advisor, will complete the minor. At least 6 upper-division hours of the minor must be completed at MSCD. Areas of emphasis are offered as suggestions for students who wish to explore a particular area of sociology in greater depth. Refer to the suggested areas of emphasis listed above which focus on the issues, theories, and research in a specific area of sociology.

MINOR REQUIRED COURSES					
SOC 1010 Introduction to Sociology					
Social Stratification Elective (one course)					
Additional Electives					
Total hours in Minor					

Spanish Program (see Modern Languages with a Concentration in Spanish) on pages 176-178 of this *Catalog*.)

SPEECH COMMUNICATION PROGRAM

Department of Communication Arts and Sciences

Communication is one of the most important human qualities and proficiency in any one of the areas of speech communication opens up many careers to the graduate.

For instance, in Broadcasting/Telecommunications, a graduate might aspire to careers in radio, television, cable and film as talent, writer, producer, director, or a specialist in promotion, public affairs, sales and marketing, management, production engineering, advertising, public information in business, industry and government.

A concentration in Speech, Language, Hearing Sciences provides sound background for students pursuing careers in education, vocational rehabilitation and health care. Graduates can obtain the prerequisite course work to pursue a master's degree in speech-language pathology or audiology which opens doors to careers in schools, hospitals, community clinics, rehabilitation centers and private practice.

Graduates in Rhetoric and Public Address have achieved success in law, industrial and organizational communication, educational administration, public relations, speech writing for political figures, teaching, public relations and theology.

Communication Theory 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.

Professional and educational theatre occupations are open to graduates in Theatre with specialties in applied theatre technologies, stage management, music theatre, directing, and acting. The Theatre Program is housed in the Department of Communication Arts and Sciences. Please see "Theatre" for degree requirements.

Speech Communication Major for Bachelor of Arts

- Core courses are required for all concentrations.
- A senior experience course is required for all students in each concentration and will be selected in consultation with a department faculty advisor.
- Elective courses within each concentration will be selected in consultation with an advisor approved by Department of Communication Arts and Sciences.
- Independent study, topic courses, and experiential education courses such as practicums and internships may be taken in each of the program areas.

REQU	IRED B	ASIC CORE COURSESSEMESTER HOURS
SPE	1010	Public Speaking
SPE	3740	Psychology of Communication
THE	3200	Oral Interpretation
Total.		9

Broadcast Journalism Concentration

Speech Communication majors with a concentration in Broadcast Journalism cannot minor in Speech Communication or Journalism.

REQUIRED COURSES		
Basic Core		9
JRN	1010	Introduction to Journalism and Mass Media
	-or-	
SPE	2400	Introduction to Radio and Television Broadcasting
JRN	1100	Beginning Reporting
JRN	1200	Beginning Editing
JRN	2100	Intermediate Reporting
JRN	4500	Ethical and Legal Issues in Journalism (Senior Experience)
COM	2450	Basic Multimedia Production
SPE	3440	Television Production
SPE	3450	Broadcast Journalism: Radio
SPE	3981	Cooperative Education: Broadcast Journalism
SPE	4450	Broadcast Journalism: Television
Total.		

Broadcast Performance Concentration

Speech Communication majors with a concentration in Broadcast Performance cannot minor in Speech Communication or Journalism.

REQUIRED COURSES			
Basic Core		9	
JRN	1010	Introduction to Journalism and Mass Media	
	-or-		
SPE	2400	Introduction to Radio and Television Broadcasting	
SPE	3430	Radio-Television Announcing	
SPE	3440	Television Production	
SPE	3460	Audio Production	
SPE	3982	Cooperative Education: Broadcast Performance	
THE	2201	The Speaking Voice in Performance	
THE	4200	Reader's Theatre (Senior Experience)	
Subtotal29-			
Electi	ve Cour	ses (choose two to three courses)	
SPE	3480	Workshop in Radio Production	
SPE	4440	Advanced Television Production	
THE	2220	Techniques of Acting I	
THE	2230	Techniques of Acting II	
Total.			

Broadcast Production Concentration

Speech Communication majors with a concentration in Broadcast Production cannot minor in Speech Communication or Journalism.

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9	SPE	4120	Freedom of Speech (Senior Experience)
9	SPE	4440	Advanced Television Production
3	Subtota	ıl	
]	Electiv	e Course	es (choose one to three courses)
9	SPE	3430	Radio-Television Announcing
9	SPE	3460	Audio Production
9	SPE	4470	TV Criticism: Production and Content
9	SPE	4480	Seminar Practicum in Broadcasting
,	THE	2240	Introduction to Stagecraft
,	Total		
Com	mun	icatio	n Theory Concentration
1	REOUI	RED CO	DURSESSEMESTER HOURS
	Basic C		
9	SPE	1700	Communication Theory
9	SPE	1710	Interpersonal Communication
9	SPE	2110	Discussion Methods
9	SPE	2720	Nonverbal Communication
	Subtota	ıl	
]	Electiv	e Course	es
9	SPE	1730	Listening and Interviewing Communication Skills
9	SPE	2710	Team and Group Communication
9	SPE	2730	Communication and Conflict
9	SPE	2770	Gender and Communication
9	SPE	3010	Advanced Public Speaking
9	SPE	3170	Interpersonal Negotiation
9	SPE	3760	Cultural Influences on Communication
9	SPE	3770	Family Communication
9	SPE	4100	Techniques of Persuasion
9	SPE	4700	Communication and the Trainer
9	SPE	4760	Communication and the Elderly
-	SPE	4790	Communication Theory Building and Research Methodology
	Total re	equired f	for major
Orga	aniza	tional	Communication Concentration
]	REQUI	RED CO	DURSESSEMESTER HOURS
]	Basic (Core	
9	SPE	1700	Communication Theory
9	SPE	3100	Business and Professional Speaking
9	SPE	3110	Organizational Leadership
			18
]	Electiv	e Course	
9	SPE	1710	Interpersonal Communication
9	SPE	1730	Listening and Interviewing Communication Skills
	SPE	2110	Discussion Methods
	SPE	2160	Organizational Communication Theory
	SPE	2710	Team and Group Communication
	SPE	2720	Nonverbal Communication
	SPE	2730	Communication and Conflict
	SPE	3010	Advanced Public Speaking
	SPE	3130	Conference Leadership
	SPE	3170	Interpersonal Negotiation.
	SPE	3760	Cultural Influences on Communication
	SPE	4100	Techniques of Persuasion

	SPE	4160	Advanced Organizational Communication	
	SPE	4700	Communication and the Trainer	
	SPE	4790	Communication Theory Building and Research Methodology	
	Total	required	for major	2
Pub	lic A	ddress	and Rhetoric Concentration	
	REQU	JIRED C	OURSESSEMESTER HOUR	S
	Basic	Core		9
	SPE	3090	Argumentation and Advocacy	3
	SPE	4080	Rhetorical Criticism of Public Address	
	SPE	4090	Classical Rhetoric	3
	SPE	4100	Techniques of Persuasion	3
	Subto	tal		1
	Electi	ve Cour	ses	
	SPE	2110	Discussion Methods	3
	SPE	3010	Advanced Public Speaking	3
	SPE	3050	Intercollegiate Forensics	1
	SPE	3080	Great American Speakers	3
	SPE	3090	Argumentation and Advocacy	3
	SPE	3100	Business and Professional Speaking	3
	SPE	3160	Communication in Politics	3
	SPE	4050	Advanced Intercollegiate Forensics	2
	SPE	4080	Rhetorical Criticism of Public Address	3
	SPE	4120	Freedom of Speech	3
	Subto	tal		1
	Total	required	for major	2
		-		

SPEECH, LANGUAGE, HEARING SCIENCES CONCENTRATION

Option A: For students planning to seek a graduate degree in speech-language pathology or audiology

REQU	JIRED C	OURSESSEMESTER HOURS
ENG	2010	The Nature of Language
BIO	2310	Human Anatomy and Physiology I
SPE	2530	Speech and Hearing Science
SPE	2890	Language Acquisition
SPE	3511	Anatomy and Physiology of Speech
SPE	3540	Phonetics and Phonological Awareness
SPE	3580	Speech Sound and Fluency Disorders
SPE	3600	Audiology I
SPE	3620	Aural Rehabilitation
SPE	4500	Principles of Assessment and Intervention
SPE	4510	Language Disorders
SPE	1500	Introduction to Communication Sciences
	-or-	
SPE	3760	Cultural Influences on Communication
Subtot	tal	

SPE 1010 Public Speaking is a prerequisite to SPE 2530, SPE 3600 and SPE 3760. BIO 1080 General Biology I and 1090 General Biology Laboratory I are prerequisites for BIO 2310. These courses are required for this major and may be used to fulfill General Studies requirements. Students planning to seek certification from the American Speech-Language-Hearing Association should take MTH 1210 Introduction to Statistics or PSY 2310 Introduction to Statistics, PSY 2210 Psychology of Human Development, and PHY 1000 Introduction to Physics or PHY 3620 Physics of Sound and Music.

	Addit	ional Co	ourses (Select at least 5 hours)
	SPE	1500	Introduction to Communication Sciences
	SPE	1610	American Sign Language I
	SPE	1620	American Sign Language II
	SPE	3610	Audiology II
	SPE	4550	Speech-Language Pathology Assistant Methods
	SPE	4551	Early Childhood Communication Assessment
	SPE	4552	Early Childhood Communication Intervention
	Subto	tal	5
	Total 1	equired _.	for Option A
Optio	on B*:	For stu	udents seeking licensure in Early Childhood or Elementary Education
	REOU	JIRED C	OURSESSEMESTER HOURS
	SPE	1500	Introduction to Communication Sciences
	SPE	1610	American Sign Language I
	SPE	2530	Speech and Hearing Science
	SPE	2890	Language Acquisition
	SPE	3540	Phonetics and Phonological Awareness
	SPE	3590	Classroom Intervention for Communication Disorders
	SPE	4500	Principles of Assessment and Intervention
	ENG	2010	The Nature of Language
	THE	3200	Oral Interpretation
	Subtot	al	
۸ddii	tional	Course	s (Select at least 9 hours)
	SPE	1620	American Sign Language II
	SPE	1710	Interpersonal Communication
	SPE	3580	Speech Sound and Fluency Disorders
	SPE	3760	Cultural Influences on Communication
	SPE	4551	Early Childhood Communication Assessment
	SPE	4552	Early Childhood Communication Intervention
	PSY	3340	Cognitive Development and Learning
	RDG		Foundations of Language and Literacy for English Language
	KDG	3330	Learners in Elementary Classrooms
	ECE	3750	Enhancing English Language Learning in
	LCL	3730	Early Childhood Education
	THE	4220	Creative Dramatics for the Classroom Teacher
			for Option B
			, A
	cation	: Speech,	obtain all required licensure coursework at MSCD may complete a Speech Communi- , Language, Hearing Sciences major in 36 credits. A 42-credit major is required in the age, Hearing Sciences emphasis for non licensure students.

Minors in Speech Communication

Students seeking a Speech Communication minor are required to take a minimum of 21 semester hours, 12 of which must be upper division.

Students seeking a Speech, Language, Hearing Sciences minor are required to take a minimum of 21 semester hours, 9 of which must be upper division.

Speech Communication Minor

REQU	JIRED (OURSESSEMESTER HOURS	
SPE	3740	Psychology of Communication	

THE	3200	Oral Interpretation
Total 1	reauired	for Speech Communication Minor

^{*}Elective hours (total of 15 semester hours including 6 upper-division hours) taken beyond the core are to be determined in consultation with a Speech Communication advisor.

SPE 1010 Public Speaking is a prerequisite to THE 3200 and SPE 3740. This course is required for all Speech Communication minors. SPE 1010 cannot be counted towards the 21 credits required for this minor; however, it may be used to fulfill General Studies requirements.

Speech, Language, Hearing Sciences Minor

REQU	JIRED (COURSESSEMESTER HOURS
SPE	1500	Introduction to Communication Sciences
SPE	2890	Language Acquisition
Subto	tal	6
Select at lea	ast one	of the following courses 1,2
SPE	2530	Speech and Hearing Science
SPE	3511	Anatomy and Physiology of Speech
SPE	3600	Audiology I
Subto	tal	3-9
Select addi	tional c	courses for a total of five electives 1,2,3
SPE	1610	American Sign Language I
SPE	1620	American Sign Language II
SPE	3540	Phonetics and Phonological Awareness
SPE	3580	Speech Sound and Fluency Disorders
SPE	3590	Classroom Intervention for Communication Disorders
SPE	3620	Aural Rehabilitation
SPE	4510	Language Disorders
THE	3200	Oral Interpretation
Subto		
Total.		

SPE 1010 Public Speaking is a prerequisite to SPE 2530, SPE 3600 and THE 3200. This course is required for all Speech Communication minors. SPE 1010 cannot be counted towards the 21 credits required for this minor; however, it may be used to fulfill General Studies requirements.

Speech-Language Pathology Assistant Certificate

This certificate prepares students to obtain the Colorado Department of Education Authorization for Speech-Language Pathology Assistants. This authorization requires that students have a BA degree in Speech, Language, Hearing Sciences (SLHS). If students have a BA degree in another field, they must complete all certificate requirements. However, MSCD prerequisites to SPE 2530, SPE 2890 and SPE 3511 will be waived for these students. Entrance to the SLPA certificate program requires a 2.5 GPA in prerequisite SLHS, or equivalent, courses which include:

PREREQUISITE COURSES SEMESTER HO			SEMESTER HOURS
SPE	2530	Speech and Hearing Science	3
SPE	2890	Language Acquisition	3

¹Courses have prerequisites which must be satisfied.

² At least 3 upper-division courses must be selected.

³ Additional elective courses are available and may be chosen and approved in consultation with an advisor in the Speech, Language, Hearing Sciences concentration.

SPE	3511	Anatomy and Physiology of Speech
SPE	3540	Phonetics and Phonological Awareness
SPE	3600	Audiology I
A gra	de of "C	" or better is required in each certificate course.
REQU	IRED C	OURSESSEMESTER HOURS
SPE	3580	Speech Sound and Fluency Disorders
SPE	3620	Aural Rehabilitation
SPE	4500	Principles of Assessment and Intervention
SPE	4510	Language Disorders
SPE	4550	Speech-Language Pathology Assistant Methods 4
Total		

Training and Organizational Development Minor

This is a multidisciplinary minor with Speech Communication, Technical Communications and Teacher Education. Please refer to the Technical Communications Program listed in the School of Professional Studies, pg. 294.

THEATRE

Department of Communication Arts and Sciences

The Theatre degree program prepares students to pursue a wide range of career options in theatre, entertainment industries, and other related fields. The flexibility offered by the B.A. or B.F.A. tracks allows students to pursue a major that best meets their goals.

Students who pursue a B.A. in Theatre must also complete a minor. The B.F.A. in Theatre is a professional course of study that provides specialized training in music theatre or applied theatre technology and design. The B.F.A. in Theatre does not require a minor. Please see additional admission requirements listed under the B.F.A. in Theatre. Further information, including procedures and requirements, may be obtained from the department.

Students considering a major or minor in Theatre should consult with faculty for advising.

Required Basic Core Courses for all Theatre Majors

REQUIRED COURSESSEMESTER HOURS				
ENG	1120	Introduction to Drama		
THE	2201	The Speaking Voice in Performance		
THE	2210	Introduction to Theatre		
THE	2220	Techniques of Acting I		
THE	2240	Introduction to Stagecraft		
THE	3200	Oral Interpretation		
THE	3280	Stage Directing		
THE	4200	Reader's Theatre (Senior Experience)		
THE	4260	Theatre: Practicum I		
Pooled Courses from University of Colorado at Denver and Health Sciences Center (UCDHSC)				
THTF	3610	Theatre Development I (Theatre History)		
THTF	R 4610	Theatre Development II (Theory and Criticism)		
Subto	<i>Subtotal</i> 30			

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Theatre Major for Bachelor of Arts (B.A.)

REQUIRED COURSES				
Basic	Basic Core			
Electiv	ve Cour	ses		
THE	2980	Beginning Internship: Theatre1-12		
THE	3220	Stage Movement		
THE	3240	Theatre Improvisation Techniques		
THE	3980	Advanced Internship: Theatre1-12		
THE	4210	Variable Topics in Theatre (maximum of 9 credit hours)		
THE	4220	Creative Dramatics for the Classroom Teacher		
Subto	tal of Ele	ectives*		
	*Additional Theatre and Art courses, including internships, may be selected in consultation with an approved theatre advisor within the Department of Communication Arts and Sciences.			
Sumn	nary of	Hours required for B.A. in Theatre:		
B.A. C		30		
B.A. E	lectives			
		<i>Major</i>		
Other	Gradua	ation Requirements:		
Gener	al Studi	es and Multicultural		
Minor	r			
Electiv	Electives 13			
Total j	Total for the B.A. in Theatre			

Theatre Major for Bachelor of Fine Arts (B.F.A.)

To be admitted to the bachelor of fine arts in Theatre with a concentration in Music Theatre degree program, students must demonstrate the capability of developing a high level of skill in music theatre performance by passing the music theatre performance audition for a jury panel. Students admitted to the bachelor of fine arts program are NOT required to complete a minor.

To be admitted to the bachelor of fine arts in Theatre with a concentration in Applied Theatre Technology and Design degree program, students must demonstrate a high level of skill by submitting a portfolio for a jury panel.

Further information, including examination policies, procedures, and requirements is provided in the department publication regarding bachelor of fine arts admission and completion policies.

Students in the bachelor of arts in Theatre major may apply to either of the B.F.A. Theatre majors by successfully completing the B.F.A. admission requirements.

Required Courses for all B.F.A. Theatre Majors:

REQUIRED C	COURSESSEMESTER HOURS
Basic Core	
ARTH 1500	Art Appreciation Survey
THE 2260	Music Theatre History and Performance
THE 2270	Production Analysis: Process and Technology
THE 3980	Advanced Internship: Theatre
THE 4270	Theatre: Practicum II
Subtotal	

(B.F.A.) Concentration in Music Theatre (MT)

REQUIRED COURSES SEMESTER HOURS				
HPL	1160	Jazz Level I	2	
HPL	1240	Tap Dance I	2	

MUS 1110 MUS 1120 MUS 1130	Music Theory I* 3 Music Theory Lab I* 1 Music Theory II** 3
Must be tak	Music Theory Lab II 1 Class Piano I* 1 Class Piano II** 1 Private Voice I 2 Private Voice II 2 n concurrently.
MUS 2810* MUS 3810* THE 2230 THE 3220 THE 3230 Subtotal	s from the following: 1 Ensemble 1 Ensemble 1 Techniques of Acting II 3 Stage Movement 3 Acting III: Styles of Acting 3 29 ill be assigned based on auditions. 29
with an appro	rses: neatre and Arts-related courses, including internships, may be selected in consultation oved Theatre advisor within the Department of Communication Arts and Sciences. for the B.F.A. in Music Theatre4
B.F.A. Core B.F.A. Require B.F.A. Elective	hours required for the B.F.A. in Theatre with a concentration in Music Theatre:
(B.F.A.) Concer	ntration in Applied Theatre Technology and Design (ATTD)
ART 1141 IND 1430 THE 2250 THE 3250 THE 3270	COURSES. SEMESTER HOURS Drawing I
Elective Cour THE 3210 THE 4210 THE 4240 THE 4250 THE 4280 THE 4290	ses: (19 credit hours) Scene Painting
(UCDHSC): THTR 2740 THTR 3720 THTR 4730 THTR 4760 Subtotal of Ele	Costume Design and Make-Up
*Additional T	heatre and Arts-related courses including internships may be selected in consultation

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		•	nours required for the B.F.A. in Theatre with a concentration in Applied Theatr nd Design:
	B.F.A.	Core	47
	B.F.A.	Require	ed Courses
	B.F.A.	Elective	es
	Total	hours fo	r the Major with a Concentration in ATTD
	Other	Gradua	ation Requirements:
	Genei	ral Studi	les and Multicultural
	Electi	ves	4-7
	Total	for the E	3.F.A. in Theatre
Mi	nor i	in Th	eatre
	REQU	JIRED C	OURSES SEMESTER HOURS
	THE	2210	Introduction to Theatre
	THE	2220	Techniques of Acting I
	THE	2240	Introduction to Stagecraft
	THE	3280	Stage Directing
	Subto	tal	
	Sugge sion):		neatre elective courses (total of nine credit hours; six hours must be upper divi-
	COUI		
	THE	2201	The Speaking Voice in Performance
	THE	2230	Techniques of Acting II
	THE	2250	Stage Management
	THE	3200	Oral Interpretation
	THE	3210	Scene Painting
	THE	3230	Acting III: Styles of Acting
	THE	3240	Theatre Improvisation Techniques
	THE	3250	Introduction to Production Design and Scenography
	THE	4200	Reader's Theatre
	THE	4220	Creative Dramatics for the Classroom Teacher
	THE	4240	Advanced Stage Craft and Applied Scene Technology
	THE	4260	Theatre: Practicum I
	THE	4270	Theatre: Practicum II
	Total.		

Additional elective theatre courses are available through this and other MSCD departments and may be chosen and approved in consultation with an advisor in Communication Arts and Sciences.

SPE 1010 Public Speaking is a prerequisite to THE 4220, THE 2210 and THE 3200. This course is required for all Speech Communication and Theatre minors. SPE 1010 **cannot** be counted towards the 21 credits required for this minor; however, it may be used to fulfill General Studies requirements.

INSTITUTE FOR WOMEN'S STUDIES AND SERVICES

The Institute for Women's Studies and Services offers a range of academic courses, both interdisciplinary and in the disciplines, that study the diversity of women's lives and experiences in the U.S. and globally.

Students may elect to minor in women's studies or may choose an individualized degree program major. Several women's studies courses are offered for General Studies course credit, Guaranteed State Transfer or in fulfillment of the Multicultural graduation requirement. Students seeking licensure as secondary education teachers in the social sciences may select from a number of women's studies courses in fulfilling their requirements. Also offered are cooperative education internships in business, government, and community organizations.

Women's studies values a diverse curriculum, fostering the inclusion of material that highlights the unique elements and intersections of gender, class, sexual orientation, race/ethnicity, and disability—groups that have historically experienced social oppression. Women's studies identifies and encourages faculty, administrative, and professional mentoring of women students and facilitates collaborative interdisciplinary research on women.

The Institute also provides support services for all students whether or not they elect women's studies courses. These services include advising, information, and referral; workshops, conferences, and seminars; a newsletter; resources such as *The Community Resource and Action Guide* and *A Guide for Students: The Scholarship Application Process*, and a small multimedia library focused on women's issues.

Information and application materials for a number of scholarships are available through the Institute, among them the Pamela McIntyre-Marcum Scholarship, scholarships from several local branches of the American Association of University Women, and the Executive Women International Scholarship. During the academic year, the Institute convenes the interdisciplinary Front Range Feminist Scholars Colloquium, bringing together faculty, graduate students, and independent scholars from the metropolitan area to share research, curriculum development, and applications of feminist scholarship. The Institute also engages in cooperative ventures with community organizations in education, business, government, and the community, for example, 9-to-5, Polaris Project Colorado and the Colorado Coalition for Women's History. Finally, to encourage and recognize excellence, the Institute sponsors Outstanding Women Awards annually in the spring.

Individualized Degree Program and Women's Studies

Students may wish to develop an Individualized Degree Program Major with an emphasis in Women's Studies. Students may consider learning objectives that encompass: cultural patterns that define women; the study of the historical achievements of women in all disciplines; and exploration of emerging needs and opportunities for women. Emphasis is on both personal and professional growth. These objectives are met within the context of the new scholarship on women, including women of color, ethnic minority women, lesbians, women with disabilities, and international women.

Students should consult with advisors at the Institute for Women's Studies and Services for recommended courses and the Center for Individualized Learning for Individualized Degree Program requirements.

Women's studies may be combined effectively with courses in management, organizational development, psychology, history, English, education, social work, nursing, human services, law enforcement, advertising, public relations, marketing, finance, and other fields appropriate to the student's interest. Students gain a sensitivity to women's issues and are thus prepared to work with both general and female populations in a variety of areas.

Employment opportunities for women's studies students are often found in community outreach, law, non-profit organizations, grant writing, and development (e.g. in women's resource centers). Students might also work in community counseling and consulting or develop workshops or special programming for women in business and industry. Students who plan to work in higher education, law, or medicine may find a women's studies degree a useful base for graduate or professional study.

Women's Studies Minor

Also interdisciplinary, the women's studies minor uses faculty expertise from many different departments.

Faculty strongly recommend a cooperative education internship. A women's studies minor is appropriate for students in education, guidance and counseling, law enforcement, human services, business management, advertising, public relations, communication, liberal arts, and the behavioral and social sciences. Men are welcome and encouraged to study the scholarship that focuses on women. They may

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find from such study a conceptual framework that will enable them to better understand, appreciate, work, and live with women.

REQUIREI	D COURSES	SEMESTER HOURS
WMS 100	1 Introduction to Women's Studies	
WMS 1650	0 Women in U.S. History (HIS 1650)	
WMS 2010	0 Interdisciplinary Research Methods in Social Issues (A	AAS 2010) (CHS 2010) 3
WMS 2210	0 Women of Color (AAS 2210)(CHS 2100)(NAS 2100)	
WMS 3510	0 Feminist Theories and Practices I	
WMS 4750	0 Feminist Theories and Practices II: Senior Seminar	
Approved I	Electives	6
Total		

In addition to the core courses, 6 semester hours of electives acceptable to or taught through women's studies are required, bringing the total number of semester hour credits for a women's studies minor to 24. These courses, some of which are interdisciplinary, are selected in consultation with the women's studies faculty and are approved by the Institute. Core courses are supplemented each semester by topics and current issues courses. Appropriate electives are often listed in other departments and crosslisted with women's studies. Students should check the Class Schedule located online on MSCD's Web site (http://www.mscd.edu) each semester for appropriate crosslisted courses and other relevant offerings. A course can be used for only one of a major or a minor or General Studies. Students are urged to get advising early in their course of study and to plan their programs with care, as some courses are offered only once each year.

CERTIFICATE AVAILABLE

The 16 semester-hour Career and Personal Development certificate program offers a comprehensive learning opportunity for persons who wish to expand their academic and personal knowledge base about career-related issues. The CPD certificate is available for students who seek: 1) professional development opportunities, 2) information about issues such as sex discrimination/ harassment in the workplace, or 3) exploration of careers in general.

Career and Personal Development Certificate

REQU	IRED C	OURSESSEMESTER HOURS
CPD	2300	Time Management
CPD	2310	Stress Management
CPD	2320	Self Esteem
CPD	2330	Assertiveness
CPD	2340	Sexual Harassment/Discrimination
CPD	2350	Career Evaluation Workshop
CPD	2360	Multilevel Wellness
WMS	2770	Gender and Communication(SPE 2770)
WMS	3220	Race, Gender and Ethnic Groups (SOC 3220)
WMS	4830	Workforce Diversity (MGT 4830)

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail. For more information, contact the Institute for Women's Studies and Services at 303-556-8441.



the School of Professional Studies

Provides students with the knowledge, skill and performance competencies needed to successfully enter a chosen profession.



The School of Professional Studies offers various degree and licensure programs that prepare students for success in specific careers while providing a broad educational background for career and life enhancement. The academic programs comprise three areas of study: teacher education, technology, and public service professions. The school includes 11 academic departments and various administrative units. There are more than 250 full- and part-time faculty, administrators, and support personnel in the School of Professional Studies who are committed to helping students attain their career goals.

MISSION

The School of Professional Studies supports Metropolitan State College of Denver's primary objectives of teaching and learning through high quality education, incorporating the most current technology, and preparing students for professional life. The School both serves and is served by the greater metropolitan area by providing graduates who are knowledgeable in diverse disciplines and cultures. The School provides the opportunity and facilities for life long learning necessary for career advancement and change in a global society.

OBJECTIVES

- The School of Professional Studies endeavors to maintain the highest level of professionalism and is committed to maximizing student achievement. Students are valued as individuals to be respected. They are stimulated to become independent, self-reliant, creative in their personal and professional lives, and contributing members of society.
- The School of Professional Studies strives to continue to be a leading source of professional
 instruction for the citizens of Colorado. All graduates of the School have both a liberal arts foundation and an applied education preparation that allows them to compete successfully for career
 opportunities.
- The School of Professional Studies supports Metropolitan State College of Denver's urban focus and seeks to integrate academic and professional experiences. To this end the School uses the community as a living laboratory with clinical and field placements providing academic credit.

Programs:

Public Service Professions

• Criminal Justice and Criminology	. page 237
• Health Professions	. page 247
• Hospitality, Tourism and Events	. page 251
• Human Performance, and Sport	. page 256
• Human Services	. page 263
• Nursing	. page 277

Teacher Education

• Early Childhood Educationpage 308
• Elementary Education
• Secondary Education
• Special Educationpage 358
• K-12 Education
• Student Teaching Office (for information call 303-556-2652)
• Teacher Application Center (for information on any licensure program call 303-556-3691)

Technology

Aviation Management and Aviation Technology	page 225
• Civil Engineering Technology	page 235
• Surveying and Mapping	page 287
• Electrical Engineering Technology	page 240
• Industrial Design	page 270
• Mechanical Engineering Technology	page 275
Technical Communication and Media Production	page 291

AVIATION AND AEROSPACE SCIENCE DEPARTMENT

The mission of the Aviation and Aerospace Science Department (AVS) is to provide students seeking careers in aviation with a high quality education through excellence in teaching so that as graduates they will be well prepared to compete in their chosen fields. Ongoing close contacts with the many aviation and aerospace businesses and entities in Colorado provide employment, cooperative education and internship opportunities for graduates and students. The Department is dedicated to developing graduates with the intellectual and practical skills needed to succeed.

The Department fulfills this mission by offering Bachelor of Science degrees with concentrations in Aviation Management and Aviation Technology:

Two Aviation Management concentrations are offered:

- 1. Aerospace Management for those interested in the management of aviation businesses, from fixed base operators (FBOs), to airports, to airlines,
- 2. Aerospace Maintenance Management specifically for those interested in the management of aviation maintenance programs, from FBOs to specialty maintenance businesses to airlines.

Three Aviation Technology concentrations are also offered:

- 1. Professional Flight Officer, for students wishing to pursue an airline flight career,
- Corporate and General Aviation, for those interested in flight careers, not necessarily with an airline,
- 3. **Aviation Operations**, for those interested in the non-flying aspects of aviation operations such as aircraft dispatch or air traffic control or those planning on pursuing military careers.

There are four minors: Aviation Management, Airframe and Powerplant Mechanics, Private Pilot and Aviation Technology. A certificate program in Airport Management is also offered.

Students holding an FAA Airframe and Powerplant (A&P) or an FAA Aircraft Dispatcher certificate may be awarded transfer credit toward the Bachelor of Science degree; 25 semester hours for the A&P certificate and 12 for the Aircraft Dispatcher certificate. Any student seeking such credit must provide a copy of the appropriate FAA certificate with the application for credit to the Aviation and Aerospace Science Department chairman. (Note: Courses leading to Airframe and Powerplant certification are not offered by MSCD.)

The Aviation and Aerospace Science Department includes a unique flight simulation laboratory, the World Indoor Airport (WIA). This is an integrated flight and air traffic control simulator lab featuring a variety of FAA-approved flight training devices. A crew resource management laboratory, flight planning station, and student computer tutorial laboratory are included in the WIA.

Please note that the Transportation Security Administration (TSA) requires that all AVS students enrolled inflight simulator courses present evidence of US citizenship, in the form of a US passport, naturalization certificate, original birth certificate and a government photo ID or other documentation or, if not a US citizen, register with TSA. See the Department for more information.

FAA FAR Part 141-Approved Ground School

MSCD's Aviation and Aerospace Science Department is an FAA FAR Part 141-approved ground school for the Private, Instrument, Commercial and Flight and Ground Instructor FAA certificates and ratings. AVS has FAA examining authority for the Private, Commercial and Instrument knowledge examinations.

FAA FAR Part 142

Full-time Aviation and Aerospace Science faculty are qualified under FAA FAR Part 142 to conduct approved ground training for the Beech 1900D Turbo-Propeller airliner. The instruction affords a student an opportunity to combine this curriculum with simulator training provided by a local private corporation leading toward a Beech 1900 type rating. Costs for using the simulator are separate from normal college tuition and fees. Private corporation training costs are subject to change and additional training requirements may also increase total cost.

Flight Training

Flight training is arranged by the student independent of the AVS Department. Aviation Technology students may obtain their FAA flight certificates and ratings from any FAA training program under FAR Part 61, 141 or 142, and submit the certificates to the AVS Department before graduation. The cost of flight training is in addition to regular tuition and other college fees. This cost varies depending upon how frequently a student is able to fly and the time required to become proficient.

Flight Courses and Financial Aid

Students who wish to obtain additional financial aid for flight training should consult with the Financial Aid office and AVS for permission to enroll in any flight course (AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530 and AES 4550). Flight courses are graded as Satisfactory or Unsatisfactory and cannot be used as electives for any concentration.

Credit for FAA Certificates and Ratings and/or Prior Aviation Experience

Students enrolling in AVS programs who already have flight certificates and ratings and/or other aviation experience have several options:

- Those with FAA certificates and ratings, but without significant aviation-related work experience, may substitute, with the approval of the AVS Department, more advanced AVS courses for the basic required courses pertaining to the certificates or ratings held.
- Those with a record of aviation-related employment may apply for credit for college-level learning gained through experience by submitting a "prior learning portfolio" to the Center for Individualized Learning. In the portfolio the student describes and documents learning equivalent to specific AVS courses listed in the *Catalog*. The portfolio is evaluated and assessed by the AVS Department and credit is awarded on the basis of this evaluation.
- The charge for each credit hour requested is one-half the in-state tuition for one credit hour (see *Alternative Credit Options* in the *Catalog*).
- Complete an Individualized Degree Program through the Center for Individualized Learning. This provides an opportunity to design a major or minor program to meet specific educational goals not met by existing AVS programs (see *Special Academic Programs* in the *Catalog*).

Bachelor of Science Degree Requirements

Students seeking a Bachelor of Science degree with a major in the Aviation and Aerospace Science Department have five options, two in Aviation Management (AMG) and three in Aviation Technology (ATV). All students must complete the 34 hours of General Studies specified by the AVS Department. The Aviation and Aerospace Science Department Handbook, available in the Department office, SS 102, lists required General

Studies courses, each concentration with an appropriate course sequence, and AVS policies and procedures. Students should schedule an advising session with an AVS faculty member early in their first semester in the Department and each semester thereafter.

A grade of at least "C" is required in all upper division courses listed as part of the major, whether or not they are AES courses, including electives. This requirement does not apply to the minor or to General Studies.

GENERAL STUDIES REQUIRED COURSES
Level I Composition: ENG 1010 and ENG 1020. 6 Mathematics: MTH 1110 or MTH 1310. 4 Communications: SPE 1010. 3 Level II
Historical: Approved course 3 Arts and Letters: Approved courses 6 Social Sciences: ECO 2010 and ECO 2020 6 Natural Sciences: PHY 1250 6 General Studies Total 34
Aviation Management (AMG) Major COURSES
Aviation Technology (ATV) Major COURSES SEMESTER HOURS Professional Flight Officer Concentration* (includes 18-credit non-AES minor or Airframe and Powerplant Mechanics minor) 86 Corporate and General Aviation Concentration**(includes 18-credit non-AES minor or Airframe and Powerplant Mechanics minor) 86 Aerospace Operations Concentration (includes 18-credit non-AES minor) 86 *Professional Flight Officer majors must have an FAA Commercial Pilot Certificate with Instrument and Multi-engine ratings and the Certified Flight Instructor and Instrument Flight Instructor certificates or a Type Rating before graduation. **Corporate and General Aviation majors must have an FAA Commercial Pilot certificate with an Instrument rating and either the FAA Certified Flight Instructor or the FAA Advanced Ground Instructor certificate before graduation.

Aviation Management (AMG) Major for the Bachelor of Science

Aerospace Management Concentration

This concentration integrates business and management courses with an aviation curriculum and a business minor to prepare the graduate for any of several aviation or aerospace business professions.

REQU	JIRED (COURSESSEMESTER HOURS
AES	1100	Aviation Fundamentals 6
AES	1400	Aviation Weather
AES	2220	Flight Dispatcher and Load Planning
AES	3220	Aviation Law and Risk Management
AES	3230	Airline Management
AES	3240	Airline Planning
AES	3850	Human Factors and Physiology of Flight
AES	3880	Aviation Security
AES	4200	Airport Planning
AES	4210	Airport Management
AES	4230	General and Business Aviation Operations

	AES AES AES	4240 4910 4860	Air Cargo3Aviation Management Problems and Job Targeting3Aviation Safety3
	AES	4950 -or	Aviation and Aerospace Science Management Strategies
	COM Subtote		Senior Seminar in Technical Communication
	Additio	onal Rec	quired Courses
	MTH	1210	Introduction to Statistics
		-or-	
	CIS	2300	Business Statistics
	PSY	1001	Introductory Psychology
	COM	2610	Introduction to Technical Writing
	SPE	-or- 3100	Business and Professional Speaking
			Dushiess and Professional Speaking
			m of 11 semester hours of AES Approved Electives
			s for all AES majors
			chool of Business
			quired
			•
	_		tenance Management Concentration
			is designed for the student seeking a management position in aviation maintenance
who			A&P Certificate.
			DURSESSEMESTER HOURS
			Powerplant Certificate
	AES	1100	Aviation Fundamentals
	AES	2150	Avionics for Aviators
	AES	3220	Aviation Law and Risk Management
	AES	3880	Aviation Security
	AES	4120	Air Carrier Systems
	AES AES	4870	Aviation Safety Program Management
	AES	4860 4950	Aviation Saftey
	ALS	-or-	Aviation and Acrospace Science Management Strategies
	COM		Senior Seminar in Technical Communication
	Subtot	al	51
	Plus a	minimi	um of 3 semester hours selected from the following:
	AES	3230	Airline Management
	AES	3240	Airline Planning
	AES	3850	Human Factors and Physiology of Flight
	AES	3870	Aircraft Accident Investigation
	AES	3980	Cooperative Education
	AES	4150	Transport Category Aircraft Systems
	Subtote	al	3
	Genera	al Studie	s for All AES Majors
	Additi	onal Re	quired Course (8 hours minimum)
		1100	Principles of Chemistry
	CHE	1150	Principles of Chemistry Laboratory
	MTH		Introduction to Statistics
		-or-	
	MTH	1320 -or-	Calculus for the Management and Social Sciences
	CIS	2300	Business Statistics
	Subtoti	al	8-9

Manag	gement	
MGT	3000	Organizational Management
MGT	3530	Human Resources Management
MGT	4000	Management Decision Analysis
MGT	4530	Organizational Behavior
MGT	4610	Labor/Employee Relations
	-or-	
		(3000/4000-level)
Subtot	al	
		ormation Systems
CIS	2010	Computer Applications for Business
CIS	3270	Advanced Computer Applications for Business
CIS	Approv	ed Elective
Total I	Hours Re	quired

Aviation Technology (ATV) Major for Bachelor of Science

Professional Flight Officer Concentration

This concentration is designed for those planning careers as professional pilots with the airlines.

REQUIRED COURSES				
AES	1100	Aviation Fundamentals		
AES	1400	Aviation Weather		
AES	1710	Single Engine Flight Simulation I		
	-or-			
AES	1760	Single Engine Flight Simulation II		
AES	1800	Commercial/Instrument Ground		
AES	2150	Avionics for Aviators		
AES	2710	Instrument Flight Simulation I		
AES	3000	Aircraft Systems and Propulsion		
AES	3460	Weather for Aircrews		
AES	3530	Aerodynamics		
AES	3710	Multiengine Flight Simulation I		
	-or-			
AES	4710	Turboprop Flight Simulation		
AES	3850	Human Factors and Physiology of Flight		
AES	3880	Aviation Security		
AES	4040	Aircraft Performance		
AES	4120	Air Carrier Systems		
AES	4130	Flight Officer Duties and Responsibilities		
AES	4370	Advanced Navigation Systems		
AES	4860	Aviation Safety		
AES	4910	Aviation Management Problems and Job Targeting		
AES	4930	Professional Flight Standards Seminar		
Requi	red Pro	fessional Pilot Documentation*		
Subto	tal			

*Commercial/Instrument/Multiengine Airplane (Commercial only for all other categories) AND CFI/CFI-IA Airplane (CFI only for all other categories, except Advanced Ground/Instrument Ground for those holding Lighter-than-Air category) OR Type Rating.

AES Approved Elective**1-
Subtotal6
* *AES Approved Electives may be any AES course not required in the concentration with the excep
tion of the flight courses: AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530
and AES 4550.
General Studies for All AES Majors
Minor (non-AES except for Airframe & Powerplant Mechanics minor, which is 31 credits)18-3
Total Hours Required

Corporate and General Aviation Concentration

This concentration is designed for those seeking careers as professional pilots in business, corporate or general aviation flight operations.

REQUIRED COURSES				
AES	1100	Aviation Fundamentals 6		
AES	1400	Aviation Fundamentals 6 Aviation Weather 3		
AES	1710	Single Engine Flight Simulation I		
ALS	-or-	Single Englic Figure Simulation 1		
AES	1760	Single Engine Flight Simulation II		
AES	1800	Commercial/Instrument Ground		
AES	2710	Instrument Flight Simulation I		
AES	3000	Aircraft Systems and Propulsion		
AES	3460	Weather for Aircrews		
AES	3530	Aerodynamics		
AES	3710	Multiengine Flight Simulation I		
	-or-			
AES	4710	Turboprop Flight Simulation		
AES	3850	Human Factors and Physiology of Flight		
AES	3880	Aviation Security		
AES	4040	Aircraft Performance		
AES	4370	Advanced Navigation Systems		
AES	4860	Aviation Safety		
AES	4910	Aviation Management Problems and Job Targeting		
COM		Introduction to Technical Writing		
AES	4930	Professional Flight Standards Seminar		
COM	-or-	Senior Seminar in Technical Communication		
		essional Pilot Documentation*		
*Comi	mercial/	Instrument - Airplane (Commercial only for all other categories) AND CFI orAd-		
		d Instructor Certificate.		
		im of 10 or 11 semester hours of Approved AES Electives**		
CIS	3270	Advanced Computer Applications for Business		
MTH		Introduction to Statistics. 4		
WIIII	-or-	introduction to Statistics		
CIS	2300	Business Statistics		
MTH		Calculus for the Management and Social Sciences		
Subtot	al			
		ed Electives may be any AES course not required in the concentration with the excep-		
tion of	tion of the flight courses: AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530, and AES 4550			
		es for All AES Majors		
		LES except for Airframe and Powerplant Mechanics minor, which is 31 credits)		
Total F	Total Hours Required			

Aerospace Operations Concentration

This concentration is designed for those seeking careers in aviation or aerospace operations, such as air traffic control, aircraft dispatcher or the military.

REQU	TRED C	OURSESSEMESTER HOURS
AES	1100	Aviation Fundamentals
AES	1400	Aviation Weather
AES	1710	Single Engine Flight Simulation I
	-or-	
AES	1760	Single Engine Flight Simulation II
AES	2220	Flight Dispatcher and Load Planning
AES	3000	Aircraft Systems and Propulsion
AES	3850	Human Factors and Physiology of Flight
AES	3880	Aviation Security
AES	4040	Aircraft Performance
AES	4860	Aviation Safety
COM	2610	Introduction to Technical Writing
AES	4910	Aviation Management Problems and Job Targeting
COM	4790	Senior Seminar in Technical Communication
	-or-	
AES	4930	Professional Flight Standards Seminar
	-or-	
AES	4950	Aviation and Aerospace Science Management Strategies
Plus a	minimu	ım of 29 semester hours of Approved AES Electives*
The fo	ollowing	courses may be substituted for Approved AES electives
	1210	Introduction to Statistics
	-or-	
CIS	2300	Business Statistics
MTH	1320	Calculus for the Management and Social Sciences
PSY	1001	Introductory Psychology
MGT	3000	Organizational Management
MGT	4530	Organizational Behavior
Subto	tal	
*AES	Approve	d Electives may be any AES course not required in the concentration with the exception
of the	flight co	urses: AES 1500, AES 2500, AES 3520, AES 4500, AES 4510, AES 4520, AES 4530, and
AES 4		
Gener	al Studi	es for All AVS Majors
Minor	r (non-A	ES)
Total I	Hours Re	equired

Minors

These are designed to afford majors in other disciplines the opportunity to develop an understanding of the aviation and aerospace world. AVS majors may not elect the Aviation Management or Aviation Technology minors, with the exception that Aviation Technology majors may minor in Airframe and Powerplant Mechanics.

Aviation Management Minor

REQU	TRED C	OURSESSEMESTER HOU	RS			
AES	1100	Aviation Fundamentals	6			
AES	3220	Aviation Law and Risk Management	3			
Subtotal						

	Plus	12 hours	selected from:
	AES	3000	Aircraft Systems and Propulsion
	AES	3230	Airline Management
	AES	3240	Airline Planning
	AES	3850	Human Factors and Physiology of Flight
	AES	4200	Airport Planning
	AES	4210	Airport Management
	AES	4230	General and Business Aviation Operations
	AES	4240	Air Cargo
	AES	4860	Aviation Safety
	AES	4910	Aviation Management Problems and Job Targeting
	Total.		
Aiı	rfran	ne an	d Powerplant Mechanics Minor
	REOI	JIRED C	OURSES
			Powerplant certificate
	Plus:		
	AES	4230	General and Business Aviation Operations
	AES	4860	Aviation Safety (or approved elective for ATV majors)
	Total.		
Pri	ivate	Pilot	: Minor*
			OURSES SEMESTER HOURS
	AES	1100	Aviation Fundamentals
	AES	1400	Aviation Weather
	AES	1710	Single Engine Flight Simulation I
	AES	2710	Instrument Flight Simulation I
	AES	3850	Human Factors and Physiology of Flight
	AES	3000	Aircraft Systems and Propulsion
	AES	-or- 4040	Aircraft Performance
			Documentation*
			lot minors must possess at least an FAA private pilot certificate.
	1111 P		
		_	
Av	riatio	on Teo	chnology Minor*
	REQU	JIRED C	OURSES SEMESTER HOURS
	AES	1100	Aviation Fundamentals
	AES	1400	Aviation Weather
	AES	1800	Commercial/Instrument Ground
	AES	3000	Aircraft Systems and Propulsion
	AES	3460	Weather for Aircrews
	AES	3850	Human Factors and Physiology of Flight
	AES	4860	Aviation Safety
	Profe	ssional I	Pilot Documentation*
	*Mus	t have ar	r FAA Commercial Pilot Certificate with Instrument rating to graduate.

Airport Management Certificate Program

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail. *This certificate has a prerequisite course of AES 1100 which may be waived with appropriate work experience or course work.

This certificate will prepare a student for the *American Association of Airport Executives* (AAAE) Certified Member examination, often required for airport management positions.

REQU	IRED CO	DURSESSEMESTER HOUR	S
AES	3880	Aviation Security	3
AES	4200	Airport Planning	3
AES	4210	Airport Management	3
AES	4230	General and Business Aviation Operations	3
AES	4860	Aviation Safety	3
AES	3220	Aviation Law and Risk Management	
	-or-		
AES	3230	Airline Management	
	-or-		
		Airline Planning	
Total.	. .		8

AIR FORCE ROTC

Air Force ROTC (UC-B) Folsom Stadium, 218 University of Colorado at Boulder Boulder, Colorado 80309 303-492-8351

U.S. Air Force ROTC offers several programs leading to a commission in the U.S. Air Force upon receipt of at least a baccalaureate degree.

Standard Four-Year Program

This program is in three parts: the General Military Course (GMC) for lower–division students; the Professional Officer Course (POC) for upper-division students; and the Leadership Laboratory (LLAB), attended by all cadets. Completion of the GMC is a prerequisite for entry into the POC. Completion of a four-week summer training course is required prior to commissioning.

Modified Two-Year Program

This program is offered to full–time, regularly enrolled degree students. It requires at least two years of full–time college (undergraduate or graduate level, or a combination). Those selected for this program must complete a six-week field-training program during the summer months as a prerequisite for entry into the POC the following fall semester.

Leadership Lab

All U.S. Air Force ROTC cadets must attend LLAB (one and one-half hours per week). The laboratory involves a study of Air Force customs and courtesies, drills and ceremonies, career opportunities, and the life and work of an Air Force junior officer.

Other AFROTC Programs

Other programs are frequently available based on current Air Force needs. Any AFROTC staff member in Boulder at 303-492-8351 can discuss the best alternatives. Interested students should make initial contact as early as possible because selection is on a competitive basis. There is no obligation until a formal contract is entered.

Air Force College Scholarship Program

Students participating in Air Force ROTC may be eligible to compete for Air Force ROTC college scholarships. Students selected for this program are placed on scholarships that pay tuition, book allowances, nonrefundable educational fees, and a subsistence of \$250-\$400 per month, tax-free. All enrolled in the POC receive a month subsistence during the regular academic year. Two- and three-year scholarships are available to both men and women in all academic disciplines.

Flight Opportunities

Prior to entering the fourth year of the AFROTC program, qualified AFROTC students can compete for pilot allocations. Cadets are eligible to fly with the Civil Air Patrol as ROTC members.

USAF Medical Programs

Qualified pre-med or nursing students can compete for pre-med or nursing scholarships and programs. These scholarships and programs can lead to a rewarding career as an Air Force officer, serving as a doctor or nurse.

AFROTC Course Credit

AFROTC courses may be worth up to 16 credit hours toward graduation depending on degree.

Registration

Students who wish to register for AFROTC classes sign up for them through the normal course registration process. AFROTC classes begin with the AFR prefix.

MILITARY SCIENCE (ARMY ROTC)

Army ROTC (UC-B) University of Colorado at Boulder Campus Box 370 Boulder, Colorado 80309 303 492-3549

The United States Army offers a variety of scholarships and programs leading to a commission as a second lieutenant in the Army after receipt of a baccalaureate or graduate degree. Students from Denver area colleges attend classes at the Auraria Campus and at the Colorado School of Mines in Golden.

Standard Four-Year Program

The Basic Course taken during the Freshman and Sophomore years is designed to introduce students to the Army. A variety of subjects such as first aid, land navigation and military history are covered. Junior and Senior students participate in Advanced Course classes and focus on leadership, Army doctrine, and the transition from student/cadet to Lieutenant. All students participate in a leadership laboratory one day per week. Completion of a six-week summer camp, usually between the junior and senior years, is required.

Two-Year Program

Under this program students may enter the Advanced Course during their Junior year without participating in the Basic Course. They receive credit for the Basic Course by attending a five-week summer camp between their Sophomore and Junior years or receive credit for prior military experience.

Army ROTC Scholarship Program

The Army currently offers two, three, and four-year scholarship opportunities, based on individual qualifications. In addition to tuition and fee assistance, students are eligible for a book stipend and \$150 per month subsistence payments during the school year.

Army ROTC Course Credit

Army ROTC serves as elective credit in most departments. Exact course credit for Army ROTC classes will be determined by your individual academic advisor.

Registration

Students desiring to register for Army ROTC should contact the recruiting officer at CU-Boulder at 303-492-3549 for more details.

CIVIL ENGINEERING TECHNOLOGY PROGRAM

Department of Engineering Technology

The degree awarded to civil engineering technology graduates is a B.S. in Civil Engineering Technology.

Civil engineering technology graduates apply engineering principles in performing many of the tasks necessary for the planning and construction of highways, buildings, railroads, bridges, reservoirs, dams, irrigation works, water systems, airports, and other structures. In planning for a construction project, they may participate in estimating costs, preparing specifications for materials, and in surveying, drafting, and design work. During the construction phase, they work closely with the contractor and the superintendent in scheduling field layout, construction activities, and the inspection of the work for conformity to specifications. In recent years, a major work area for civil and environmental engineering technology has involved environmental problems. This includes design and construction of water supply facilities and the design of wastewater collection and treatment facilities. The development of environmental impact studies and environmental impact statements are also included.

Students must meet the following curriculum requirements for the various degrees, minors, and concentrations.

The program coordinator must approve all technical electives. All students who are considering a major in civil engineering technology are expected to consult with CET faculty for advising.

All majors in civil engineering technology are required to complete all civil engineering technology courses, mechanical engineering technology courses, Surveying, Mathematics, Communications, Physics, Chemistry courses, with a grade of "C" or better.

Under revised rules and regulations of the Colorado State Board for Registration for Professional Engineers and Professional Land Surveyors, students within 30 semester hours of graduation may take the Fundamentals of Engineering Examination.

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, Maryland 21202, (410) 347-7700.

If considering graduate school studies in engineering or physical science, students are encouraged to elect the mathematics minor.

Civil Engineering Technology Major for Bachelor of Science

REQ	UIRED T	ECHNICAL STUDIES	SEMESTER HOURS
CET	1100	Introduction to Civil Engineering Technology	3
CET	1200	Technical Drawing I	3
CET	1210	Technical Drawing II	
CET	2100	Structural Drawing	4
CET	2150	Mechanics I—Statics	3
CET	3120	Engineering Economy	3
CET	3130	Mechanics of Materials	3
CET	3140	Mechanics of Materials—Laboratory	1
CET	3150	Thermodynamics	
CET	3160	Mechanics II—Dynamics	
CET	3170	Introduction to Structural Analysis	3
CET	3180	Fluid Mechanics I	
CET	3190	CET Fluid Mechanics II	
CET	3330	Environmental Technology Processes	3
CET	4130	Soil Mechanics (Senior Experience)	
CET	4150	Highway Engineering	3
CET	4570	Engineering Law	3
COM	1 2610	Introduction to Technical Writing	
One	of the fol	lowing courses:	
CS	1050	Computer Science 1	4
CSS	1247	Introduction to Programming: Visual Basic	4
MTF	I 1510	Computer Programming: FORTRAN	4
Subto	otal		57
Addi	tional Re	quirements	
CHE	1100	Principles of Chemistry	4
CHE	1150	Principles of Chemistry Laboratory	1
ECO	2010	Principles of Economics—Macro	
	-or-		
ECO	2020	Principles of Economics—Micro	
ENG	1010	Freshman Composition: The Essay	3
ENG	1020	Freshman Composition: Analysis, Research, and Documenta	
MTH	H 1410	Calculus I	4
MTH	H 2410	Calculus II	4
MTH	H 2420	Calculus III	4
PHY	2311	General Physics I	4
PHY	2321	General Physics I Laboratory	
PHY	2331	General Physics II	
PHY	2341	General Physics II Laboratory	
SPE	1010	Public Speaking	
		f Level II General Studies–Historical*	
		evel II General Studies–Arts and Letters*	
		f Level II General Studies–Social Science*	
Subto	otal		51

^{*}Selecting any General Studies Level II course approved for multicultural credit will satisfy the multicultural requirement of three credits.

Concentrations (Choose One Only)

Structures Concentration

REQU	IRED T	ECHNICAL STUDIES SEMESTER HOU	JRS
CET	4120	Concrete Design I	. 3
CET	4140	Concrete Design II	. 3
CFT	4400	Steel Design I	3

(CET	4410	Steel Design II	3
(CET	4450	Timber Design	
A	Appro	ved Upp	per-Division Technical Elective* (consult a CET advisor)	3
P	Progra	m Total	for Structures Concentration	?6
Conc	truc	tion (Concentration	
			ECHNICAL STUDIES	
	CET		Construction Methods	
-		3110	Construction Methods Construction Estimating.	
	CET	4120	Concrete Design I	
-		4400		
-	CET	4450	Steel Design I	
-			per-Division Technical Elective* (consult a CET advisor)	
	тррго	veu Opp		
	Total		1	
7			for Construction Consoutration 13	
T P	Progra	m Total	for Construction Concentration12	
T P	Progra	m Total		
T F *	Progra May l	m Total be used to	for Construction Concentration	
T F *	Progra May l	m Total be used to	for Construction Concentration12	
T F * Matl	Progra May l hen	m Total be used to	for Construction Concentration	26
Matl	Progra May l hen REQU	m Total be used to	for Construction Concentration	26
Matl	Progra †May l hen REQU MTH	m Total pe used to natics	for Construction Concentration	26
Mat]	Progra May l hen REQU MTH MTH	m Total be used to natics IRED TI 1410	for Construction Concentration	26
Matl	Progra hen REQU MTH MTH MTH	m Total be used to natics IRED TI 1410 2410	for Construction Concentration	26
Matl R N N N	Progra May l hem REQU MTH MTH MTH MTH	m Total be used to the used to	for Construction Concentration	26
Matl R N N N N N	Progra hem REQU MTH MTH MTH MTH MTH	m Total pe used to natics IRED TI 1410 2410 2420 3420	for Construction Concentration	26
Matl R N N N N N N N N N N N N N N N N N N	Prograph May be	natics IRED TI 1410 2410 2420 3420 3130 3210	for Construction Concentration	26
### Matl	Prograph May be	natics IRED TI 1410 2410 2420 3420 3130 3210	for Construction Concentration	26
### Mat I	Prograde May be the May be the MTH	natics 1410 2410 2420 3420 3130 3210 e of the	for Construction Concentration	26 4 4 4 4
Matl R M M M M M M M M M M M M M M M M M M	hen REQU MTH MTH MTH MTH MTH MTH COF On	natics 1410 2410 2420 3420 3130 3210 e of the	for Construction Concentration	286 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

CRIMINAL JUSTICE AND CRIMINOLOGY DEPARTMENT

The present and future needs of U.S. society require greater numbers of highly educated people in criminal justice agencies at all levels of government. Criminal justice employers demand applicants who have had professional education. There is considerable interest among criminal justice practitioners to increase professionalism through education. The curriculum provides quality criminal justice education and prepares students interested in the study of police, law enforcement, probation and parole, corrections, juvenile agency work, criminal justice administration, and private/corporate security. Course offerings within these professional fields are related to other programs at the College, including human services, business, and the social sciences.

Criminal Justice and Criminology Major for Bachelor of Science

The bachelor of science in criminal justice and criminology is designed to provide professional courses as well as a broad general education. The curriculum is structured for the student seeking either preservice or in-service education. Recognizing that many people who are interested in such education are already employed in some form of criminal justice work, and that many people have completed coursework at the community college level, the department has developed a four-year program that provides comprehensive fundamental subjects in the first two years (lower-division) and advanced, specialized or administrative subjects in the second two years (upper-division). The curriculum is structured to facili-

tate transfer from two-year police science/criminal justice programs. The department has an articulation agreement with the Colorado Community College System. The articulation agreement states that if a transfer student has completed the total basic requirements at any accredited Colorado community college, Metropolitan State College of Denver will consider the student's General Studies requirements completed.

Students must meet the College's requirements for the bachelor's degree including General Studies, and a multicultural course. They should consult with a faculty advisor regarding General Studies courses and the selection of criminal justice electives. The department recommends the following General Studies courses: BIO 1000 Human Biology for Non-Majors; PSY 1001 Introductory Psychology; and SOC 1010 Introduction to Sociology. Students must also declare a minor.

	REQU	IRED C	OURSESSEMESTER HOURS
	CJC	1010	Introduction to the Criminal Justice System
	CJC	1450	Introduction to Corrections
	CJC	2020	Research Methods and Basic Statistics for Criminal Justice Professionals 3
	CJC	2100	Criminal Law
	CJC	2210	American Policing
	CJC	3110	Constitutional Issues in Criminal Procedure and Evidence
	CJC	3130	Victimology
	CJC	3200	Criminal Justice Administrative Behavior
	CJC	3350	Juvenile Justice and Delinquency
	CJC	3400	Criminological Theories
	CJC	3410	Criminal Justice and the Social Structure
	CJC	4300	Institutional Corrections
	CJ	4650	Ethics for the Criminal Justice Professional
	Subtot	al	
	CJC* Subtot	al	
	opmer to this	nt of cor elective	cted in consultation with and approved by the department advisor allow for development and speciality areas or a general degree plan. Internship credit may apply area but no more than 6 semester hours are allowed. At least 6 credit hours of the must be upper-division.
			es
			ses and required electives
	Minor		
	Other	electives	5
	Total.		
Min	or in C	riminal	Justice and Criminology
141111	COUF		
	CJC CJC CJC	1010 3410 4650	Introduction to the Criminal Justice System.3Criminal Justice and the Social Structure.3Ethics for the Criminal Justice Professional3
	CJC	LICCIIV	es selected in consultation with and approved by the department advisor, at least 4 hours of which must be upper-division

DIGITAL MEDIA

Departments of Art, Communication Arts and Sciences, and Technical Communication and Media Production

Digital Media Minor

The Digital Media Minor includes courses from the departments of Art, Communication Arts and Sciences, and Technical Communication and Media Production. This minor consists of 24 hours, 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. In addition to required core courses, students choose one of the following concentrations: motion media, interactive media, content design or still media. The motion media concentration deals with television and corporate video production. Students in interactive media work with computer graphics, interactive applications and Web-based media production. The content design concentration focuses on the design of the message from the visual and written perspective. Still-media students explore with photography, photojournalism, and computer imaging. Courses that are recommended to fulfill the General Studies Level II Arts & Letters requirement are: ARTH 1500 or ARTH 2100 or LAS 2850. Students should contact an advisor to plan a course of study for their particular minor. If you have taken any one of the required courses as part of your major, you must substitute another course(s) in the minor for it.

Required Core

COURSES	SEMESTER HOURS
ART 1180	Introduction to Computers in Art
ART 1101	Two-Dimensional Design
COM 2430	Introduction to Technical Media
JRN 1010	Introduction to Journalism and Mass Media
Required Core	Total

Choose three courses from one of the four concentrations. In addition, choose one course from any of the four concentrations. Courses cannot be used to meet both the requirements of this minor and the requirements of a major in Art, Journalism, Speech or Technical Communication.

Still Media Concentration

COURSES		RSES	SEMESTER HOURS
	ART	1271	Basic Photography Methods
	ART	2222	Visual Thinking
	ART	2237	Constructing the Visual Image
	JRN	2600	Introduction to Photojournalism
	JRN	3600	Photojournalism I
	JRN	4600	Photojournalism II
	IRN	4890	Social Documentary

Interactive Media Concentration

COURSES	SEMESTER HOURS
ART 2237	Constructing the Visual Image
ART 3235	Video Art
ART 3631	Interactive Multimedia Art
ART 3635	Web Art I
COM 2450	Basic Multimedia Production
COM 2470	Basic DVD Authoring
COM 2480	Corporate Animation
COM 3450	Intermediate Multimedia/Web Production
COM 4450	Advanced Multimedia/DVD Production

Motion Media Concentration

	COUR	SES	SEMESTER HOUR	S
	ART	3235	Video Art	3
	COM	2400	Basic Nonlinear Video Editing	3
	COM	3400	Intermediate Nonlinear Video Editing	3
	COM	4401	Advanced Nonlinear Video Editing	
	COM	2420	Basic Single Camera Video Production	
	COM	3420	Intermediate Single Camera Production	
	COM	4420	Advanced Single Camera Video Production	3
	COM	4430	Lighting and Directing for Nonbroadcast Video	3
	SPE	3430	Radio-Television Announcing	3
	SPE	3440	Television Production	3
	SPE	4440	Advanced Television Production	3
Coı	ntent l	Design	Concentration	
	COUR	SES		S
	COM	3440	Scriptwriting for Video	3
	COM	3470	Writing for Interactive Media	
	COM	3680	Internet Document Design for Technical Communicators	
	JRN	1100	Beginning Reporting	
	JRN	1200	Beginning Editing	
	SPE	4450	Broadcast Journalism: Television	
	Requi	red Core	Courses:	2
	Conce	ntration	Courses	9
	Flectiv	res		3

ELECTRICAL ENGINEERING TECHNOLOGY PROGRAM

Department of Engineering Technology

Electrical Engineering Technology graduates are taught a balance of theory and application with the goal of placing graduates into the electrical and electronics industry. The sound theoretical grounding has enabled many graduates to obtain advanced degrees. The practical curriculum makes the transition to industrial employment smooth.

Graduates of four-year engineering technology programs may get jobs similar to those obtained by graduates with a bachelor's degree in engineering. Some employers regard them as having skills between those of a technician and an engineer. Graduates are employed in a variety of positions including manufacturing, computer programming, management, design, sales, service, and support.

The EET curriculum builds a solid theoretical foundation in science, mathematics and electric circuits and devices. The student majoring in EET may specialize in one the following concentrations: Computer Engineering Technology, Communications, or Power and Control Systems.

As a requirement for graduation all candidates for the Bachelor of Science in Electrical Engineering Technology degree must take and pass a comprehensive assessment examination to demonstrate competency in core subject areas as well as in material relevant to their area of concentration.

Electrical Engineering Technology Major for Bachelor of Science

The Bachelor of Science degree is awarded upon completion of the required program. The program emphasizes theory and practice. Laboratory and lecture classes are generally integrated.

This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202, Telephone: (410) 347-7700; Fax: 410-625-2238; www.abet.org.

Additional Requirements for EET Majors:

- Any course used to satisfy a prerequisite for an EET course must be passed with a grade of "C" or better.
- Students must achieve a cumulative GPA of 2.0 for all courses that satisfy the MSCD General Studies requirements.

REQU	IRED TE	CHNICAL COURSES (CORE) SEMESTER HOURS
EET	1001*	Electronics: An Introduction (or EET elective in consultation with EET Advisor) 3
EET	1140	Circuits I
EET	1150	Circuits II
EET	2140	Electronics I
EET	2150	Electronics II
EET	2310	Digital Circuits I
EET	2340	Technical Programming Applications
EET	2350*	Advanced Technical Programming
EET	3110	Circuit Analysis with Laplace
EET	3120*	Advanced Analog Electronics
EET	3330	Digital Circuits II
EET	3360	Microprocessors
EET	3620	Analog and Digital Communications
EET	3710	Control Systems Analysis
EET	4100	Senior Project I**
EET	4110	Senior Project II**
		ET Electives*6
Subtot	al	
Additi	onal Cou	urse Requirements
COUR		SEMESTER HOURS
CHE	1100	Principles of Chemistry and CHE 1150 Principles of Chemistry Laboratory
		(The sequence CHE 1800, CHE 1810, and CHE 1850 may be substituted) 5
COM	2610	Introduction to Technical Writing
ENG	1010	Freshman Composition: The Essay**
ENG	1020	Freshman Composition: Analysis, Research, and Documentation**
MTH	1400	Precalculus Mathematics (The sequence MTH 1110 and MTH 1120
		may be substituted)
MTH	1410	Calculus I**
MTH	2410	Calculus II
PHY	2311	General Physics I**
PHY	2321	General Physics I Laboratory**
PHY	2331	General Physics II**
PHY	2341	General Physics II Laboratory**
SPE	1010	Public Speaking**
		Level II General Studies—Historical**
Six ho	urs of Le	vel II General Studies—Arts and Letters**
		vel II General Studies—Social Science** 6
		54

Progra	m Total .	

*These courses are not required if the student chooses the Computer Engineering Technology concentration. For replacement courses, see the concentration.

Available EET Concentrations (only one area needs to be chosen)

Computer Engineering Technology Concentration

	-	·	
	Requir COUR		Arts and Letters General Studies course for this concentration:
	PHI	3360* -or-	Business Ethics
	PHI	1030*	Ethics
	* Thes	e course:	s count toward General College Requirements.
	The fo	-	g courses are required and are considered part of the EET major requirements as
	EET EET EET Three CS	3350 4340 4370 hours cl 1050	Embedded Applications Using C++ (Replaces EET 2350 in Core)
	* Stud skills.	lents wii	th weak mathematical skills may still be advised to take EET 1001 to enhance their
	CS CS CS Six add EET 3	2050 2400 3400 ditional 730, EE	OURSES FOR THE CONCENTRATION. SEMESTER HOURS Computer Science 2. 4 Computer Organization and Assembly Language 4 Computer Architecture. 4 hours chosen from CET 3120, CS 3600, CS 3700, CS 4250, EET 1300, EET 3690, T 3740, EET 3800, EET 4020, EET 4320, EET 4330, EET 4630, or EET 4730 6
Co			ns Concentration
			ith the EET program on updates to courses for this concentration.
	REQU EET EET	1300 3670 -or-	OURSES FOR THE CONCENTRATIONSEMESTER HOURS Computer Nuts and Bolts
	EET EET Six add EET 3	hours o 4330 4620 ditional 800, EE	f EET elective chosen in consultation with an EET advisor
Pov	ver an	d Con	trol Systems Concentration
	REQU EET	3410 E	OURSES FOR THE CONCENTRATIONSEMESTER HOURS lectric Machines
	EET	-or- 3420	Electric Power Distribution

^{**}These courses count toward General College Requirements. Selecting any General Studies Level II course approved for multicultural credit may satisfy the multicultural requirement of three credits.

^{***}In select cases, a minor in another area may be substituted for a concentration with prior approval of an EET advisor.

EET 3740 Programmable Logic Controllers	EET	3730	Process Control Systems	. 2
Seven additional hours chosen from: CET 2150, CET 3120, EET 3350, EET 3410, EET 3630, EET 3720, EET 3800, EET 4320, EET 4330, EET 4340, EET 4370, EET 4730 , MET 3110, or MET 3120	EET	3740	Programmable Logic Controllers	. 2
CET 2150, CET 3120, EET 3350, EET 3410, EET 3630, EET 3720, EET 3800, EET 4320, EET 4330, EET 4340, EET 4370, EET 4730 , MET 3110, or MET 3120	EET	4710	Digital Control Systems Design	. 4
EET 4330, EET 4340, EET 4370, EET 4730, MET 3110, or MET 3120				
Subtotal	EET -	4330, EE'	T 4340, EET 4370, EET 4730 , MET 3110, or MET 3120	. 7
0.00.00.00.00.00.00.00.00.00.00.00.00.0	Subto	otal		18

Minors and Certificates in Electrical Engineering Technology

Along with the EET Major and its three concentrations, the EET program also has two areas available as a minor or as a certificate: Electrical Engineering Technology and Network Communications.

Additional requirements for minors within the EET program: Any course used to satisfy a prerequisite for an EET course must have a grade of "C" or better.

Electrical Engineering Technology Certificate or Minor

PREREQUISITES SEMESTER HO		
MTH 1400	Precalculus Mathematics (The sequence MTH 1110 and MTH 1120	
	may be substituted)	
PHY 2311	General Physics I (Algebra based PHY 2010 may be substituted)	
PHY 2321	General Physics I Laboratory (Algebra based PHY 2030 may be substituted) 1	
PHY 2331	General Physics II (Algebra based PHY 2020 may be substituted) 4	
PHY 2341	General Physics II Laboratory (Algebra based PHY 2040 may be substituted) 1	
REQUIRED C	OURSESSEMESTER HOURS	
EET 2000	Electric Circuits and Machines	
	(The sequence EET 1140 and EET 1150 may be substituted.)	
EET 2310	Digital Circuits I	
EET 2340	Technical Programming Applications	
	(Any one of the following may be substituted: CS 1050, CSS 2227,	
	CIS 2110, MTH 1510 or MET 3210)	
EET 3010	Industrial Electronics	
	(The sequence EET 2140 and EET 2150 may be substituted)	
EET 3330	Digital Circuits II	
EET 3360	Microprocessors	
Total		

Network Communications Certificate or Minor

Please check with the EET program on updates to courses for this certificate or minor.

REQU	TRED CO	OURSESSEMESTER HOUR	S
EET	1300	Computer Nuts and Bolts	3
EET	2310	Digital Circuits I	4
EET	4330	Data Communications	3
EET	4520	Cellular and PCS (Personal Communication Services)	
	-or-		
Three	hour EE	ET Elective chosen in consultation with an EET advisor	3
CIS	3280	LAN and WAN Systems for Business	3
CIS	4280	Network Installation and Administration	3
Total.			19

Engineering Fundamentals Certificate

(For individuals with a background of Electrical Engineering or Electrical Engineering Technology seeking to improve their knowledge of areas outside of their background that are covered in the Fundamentals of Engineering Exam).

RECO	MMENI	DED ADDITIONAL MATHEMATICS COURSES:	
MTH	2420	Calculus III	4
MTH	3420	Differential Equations	4
REQU	TRED C	OURSES	. SEMESTER HOURS
CET	2150	Mechanics I–Statics	3
CET	3120	Engineering Economy	
CET	3130	Mechanics of Materials	3
CET	3140	Mechanics of Materials - Laboratory	1
CET	3160	Mechanics II–Dynamics	3
CET	3180	Fluid Mechanics I	
CET	3190	CET Fluid Mechanics II	
	-or-		
EET	4320	Digital Filters	
EET	3630	Electromagnetic Fields	3
MET	3110	Thermodynamics	3
PHI	3360	Business Ethics	
	-or-		
PHI	1030	Ethics	3
Total.			28

ENGINEERING TECHNOLOGY DEPARTMENT

The Engineering Technology Department houses:

Civil Engineering Technologypa	age 235
Electrical Engineering Technologypa	age 240
Mechanical Engineering Technologypa	age 275
For further information, call 303-556-2503 or stop by South Building, Room 213.	

GERONTOLOGY PROGRAMS

Department of Health Professions

The purposes of the interdisciplinary gerontology programs are to provide an organized, systematic exploration of aging within society that enables students to develop beginning skills to effectively work directly or indirectly with older populations in a variety of settings; to cultivate a positive attitude toward aging; and to emphasize the dignity and work of each individual. The programs in gerontology are administered by the Department of Health Professions, 303-556-3130, South Classroom 226.

Students have a variety of program options in gerontology to select from: a certificate in gerontology; a minor in Gerontology; and a major in Human Development (Applied Track Gerontology) or a major in Sociology (Gerontology Concentration) or a major in Social Work (Aging Concentration). In addition, students interested in Gerontology are advised by faculty to take courses related to gerontology that meet their interests.

Students desiring or considering entry to any of the gerontology programs need to seek academic advising from the gerontology advisor in the Department of Health Professions. Students are responsible for keeping themselves informed of the latest program changes. Up-to-date program materials and requirements are available in the Department of Health Professions. Students seeking a major concentration in Gerontology should seek academic advising in one of the above major departments. Students must pass all courses in the gerontology program of choice with a grade of "C" or better.

Graduates in gerontology are employed in a variety of facilities and organizations: community, human service, and religious organizations; exercise, fitness, mental health, acute health care, and long-term care institutions; federal, state, and local government agencies, including the aging network; retirement communities; academic and other educational and research settings; professional organizations; and business and industry.

Gerontology Minor

Educational Goals and Outcomes

Upon completion of the Gerontology minor, the student will be able to:

Core Exit Behaviors

- examine sociological, psychological, and biological/physiological theories of aging.
- describe the underlying biological/physiological processes associated with aging and the challenges these
 present.
- describe the effects of ethics, economics, and policy decisions have on the biological/physiological, sociological, psychological, and cultural aspects of aging and the resulting challenges.
- investigate the changes occurring in society resulting from our aging population.
- apply aging theories, ethics, economics conditions, and aging related policy decisions to a practical
 experience involving the aged or services for the aged.

Orientation Exit Behavior (based on orientation area selected by the student)

Liberal Arts

- examine attitudes toward older culturally diverse people to discover ways that aging is portrayed. Professional Practice
 - provide direct services to older culturally diverse people and their families, administer and plan
 programs and services, or work to modify social institutions and policies.

Students must complete all of the following core course requirements and at least nine (9) credit hours from either the liberal arts orientation or the professional services orientation.

REQUIRED	COURSESSEMESTER HOURS
HES 3810	Physiology of Aging for Non-Biology Majors
-or-	
BIO 3530	Physiology of Aging for Non-Biology Majors
PSY 3270	Adulthood and Aging
SOC 1040	Introduction to Social Gerontology
HES 4520	Internship in Gerontology
Subtotal	

The first three (3) required core courses must be taken prior to selecting courses from an area of orientation. HES 4520 (Internship in Gerontology) must be taken the last semester of minor coursework. It may be taken with one other approved course from the orientation options. You must contact the gerontology advisor the semester before you plan to register for this course.

Students must select a minimum of nine (9) credit hours from one of the following orientations. These courses must be approved by the gerontology advisor in the Department of Health Professions.

Liberal Arts Orientation

REQU	IRED CO	DURSESSEMESTER HOURS	S
RECR	2330	Advocacy, Leisure, and the Aging Adult	3
PSY	2270	Death and Dying	3
SOC	3040	Contemporary Issues in Gerontology	3
SOC	3100	Death and Dying	3
SPE	4760	Communication and the Elderly	3

Professional Services Orientation

COURSES	
HCM 3020	Management Principles in Health Care
HSL 1420	Activity and Fitness Programs for the Elderly
RECR 2330	Advocacy, Leisure, and the Aging Adult
RECR 3070	Health and Movement Problems in the Aging Adult
NUT 3100	Nutrition and Aging
PSY 2270	Death and Dying
SWK 3020	Case Management in Social Work Practice
SWK 3030	Social Work with the Aging
Total hours for	Gerontology Minor21-24

Students may select a gerontology topics course or an independent study course that deals with aging if it is appropriate for their selected orientation and approved by the gerontology advisor.

Gerontology Certificate of Completion Program: See the gerontology advisor in the Department of Health Professions for information about the Gerontology Certificate of Completion. (See below.)

Human Development Major with an Applied Track Gerontology Concentration: See the gerontology advisor in the Department of Psychology.

Sociology Major with a Gerontology Concentration: See an advisor in the Department of Sociology, Anthropology and Behavioral Science for information on this program.

Social Work Major with an Aging Concentration: See an advisor in the Department of Social Work for information on his program.

Gerontology Certificate Program

REQUIRED	CORE SEMESTER HOURS
HES 3810	Physiology of Aging for Non-Biology Majors
HES 4520	Internship in Gerontology3-6
	Adulthood and Aging
SOC 1040	Introduction to Social Gerontology

Choose nine credit hours from one of the following orientations

Liberal Arts Orientation

REQU	IRED C	OURSESSEMESTER HOURS
PSY	2270	Death and Dying
SOC	3040	Contemporary Issues in Gerontology
SOC	3100	Death and Dying
SPE	4760	Communication and the Elderly

Professional Services Orientation

REQUIRED CO	OURSES SEMESTER HOURS
HCM 3020	Management Principles in Health Care
RECR 2330	Advocacy, Leisure, and the Aging Adult
RECR 3070	Health and Movement Problems in the Aging Adult
NUT 3100	Nutrition and Aging
SWK 3020	Case Management in Social Work Practice

Students may select a gerontology/aging topics course or an independent study course that deals with aging, if it is appropriate for their related orientation and approved by the gerontology advisor.

For prerequisites and more information call the gerontology advisor in the Department of Health Professions-303-556-3130.

HEALTH PROFESSIONS DEPARTMENT

The Health Professions Department offers the following programs and courses:

• Eating Disorders Minorpage 282
• Gerontology Minor page 245
• Gerontology Certificatepage 246
• Health Care Management Major
• Health Care Management Minorpage 249
• Health Education Service Courses page 249
• Holistic Health and Wellness Minorpages 152, 249
• Integrative Therapeutic Practices Major page 271
• Recreation Professions Major (previously Leisure Studies Major)page 285
• Recreation Services Minor (previously Leisure Services Minor) page 287
• Nutrition Minorpage 283

The purposes of the programs in the Health Professions Department 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 Health Professions Department offers three majors: a bachelor of science degree in Health Care Management, a bachelor of science degree in Integrative Therapeutic Practices with either a Clinical or Administrative concentration, and a bachelor of arts degree in Recreation Professions with either a Recreation Management or Therapeutic Recreation concentration. The department also offers minors in Eating Disorders, Health Care Management, Holistic Health and Wellness, Recreation, and Nutrition, and coordinates the interdisciplinary minor, Gerontology. Health education services courses are offered for non-health majors and health majors.

Students desiring to enter programs in the Health Professions Department should seek academic advising from a faculty member in the department prior to registration for classes. Students are responsible for keeping themselves informed of the latest program changes. Current program materials are available in the Health Professions Department (South Classroom 226).

HEALTH CARE MANAGEMENT

The College'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, computer information systems, accounting, and economics, 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 (HCM and all required support courses) in order to progress through the program. Courses with grades of less than "C" will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. All general requirements of the College for a bachelor of science degree must be met prior to graduation.

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; and governmental agencies at local, state, and national levels.

The Health Care Management program is housed in the Health Professions Department. For more information call 303-556-3130 or go to South Classroom 226.

Educational Goals and Outcomes

The baccalaureate health care management program has established the following outcomes for all graduates. The health care management graduate:

- Effectively manages health delivery systems, maximizing quality, and quantity of services and human resources in the face of limited fiscal support.
- Views health delivery as having multiple interdependent components within an environmental context.
- Initiates and effectively manages change in a rapidly evolving health care environment.
- Identifies the effects of law on the role of managers in health delivery systems and the challenge of managing within a legal and ethical framework.
- Uses research and information science methodologies to solve management problems in health delivery systems.
- Applies basic economic and fiscal principles in the management of health delivery systems.
- Accepts accountability for continued learning by acquiring knowledge and skills that meet the changing needs of self, client, management, and society.

ASSESSMENT METHODOLOGY

The student's administrative performance will be evaluated during the internship experience (HCM 4510, Health Care Management Practicum), based on previously agreed-upon objectives. The program exit evaluation will be a combined effort of the student, a faculty member, and preceptor.

Health Care Management Major for Bachelor of Science

REQUIRED C	OURSESSEMESTER HOURS		
HCM 3010	Health Care Organization		
HCM 3020	Management Principles in Health Care		
HCM 3030	Health Care Jurisprudence		
HCM 3300	Management Issues and Health Policy		
HCM 4020	Human Resource Management in Health Care		
HCM 4030	Financial Management in Health Care		
HCM 4040	Health Care Economics		
HCM 4500	Health Care Management Pre-Practicum		
HCM 4510	Health Care Management Practicum. 6		
Subtotal	Subtotal		
REQUIRED SU	UPPORT COURSES SEMESTER HOURS		
ACC 2010	Principles of Accounting I		
ECO 2020	Principles of Economics—Micro		
MKT 3000	Principles of Marketing		
Approved Stat	tistics Course		
Approved Res	earch Course		
Approved Cor	mputer Course		
Total			

A minor is required. The student selects a minor with approval of the faculty. Students who have an associate degree in a health occupation may substitute up to 24 hours of selected, approved associate degree major courses in place of a minor toward the bachelor's degree. 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. Health care management majors who desire to work in institutions providing care to the elderly are encouraged to take the gerontology minor.

Health Care Management Minor

REQUIR	ED COURSES	SEMESTER HOURS
HCM 3	010 Health Care Organization	
HCM 3	020 Management Principles in Health Care	
HCM 3	030 Health Care Jurisprudence	
HCM 4	020 Human Resource Management in Health Care	
HCM 4	030 Financial Management in Health Care	
	-or-	
HCM 4	040 Health Care Economics	
Subtotal		
Required	1 Support Courses	
	HCM 4030 select:	
ACC 2	010 Principles of Accounting I	
_	-or-	
	HCM 4040, select	
	020 Principles of Economics—Micro	
Approve	d Computer Course	
Total		

Health Education Services

This group of courses is designed to meet the special needs of non-health majors, as well as health majors. An effort is made to provide students with content relevant to individual needs. Students must consult a faculty advisor in the selection of appropriate General Studies courses.

COUF	RSES	
HES	1050	Dynamics of Health*
HES	1230	Understanding Medical Terminology
HES	2150	Complementary and Alternative Medical Therapies**
HES	2180	AIDS: Acquired Immune Deficiency Syndrome*
HES	2750	Holistic Health
HES	3050	Therapeutic Touch
HES	3070	Parental Health Care Issues
HES	3170	Introduction to Homeopathy
HES	3310	Introduction to Traditional Chinese Medicine
HES	3350	Ayurveda Therapy I: Introduction to Basic Principles
HES	3410	Botanical Pharmacology
HES	3450	Dynamics of Disease**
HES	3600	Ethical Decision Making in Health Care
HES	3750	Clinical Pathophysiology
HES	3810	Physiology of Aging for Non-Biology Majors
HES	3820	Health Care Counseling
HES	4350	Ayurveda Therapy II: Prevention and Management of Chronic Conditions 3
HES	4520	Internship in Gerontology
HES	4750	Clinical Pathophysiology II
HES	4970	Internship in Holistic Health and Wellness
*meet	s Level I	I–General Studies. Social Sciences requirement

^{*}meets Level II–General Studies, Social Sciences requirement **meets Level II–General Studies, Natural Science requirement

Holistic Health and Wellness Minor

The holistic health and wellness minor offers an area of concentration 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 is designed to complement a major cho-

sen by a student that is relevant to the student's career goals. For additional information, please contact the Department of Health Professions at 303-556-3130, South Classroom 226.

The minor comprises 21 hours of study: REQUIRED COURSES..........SEMESTER HOURS HES 1050 HES 2150 HES 2750 HES 3310 -or-HES 3350 -or-HES 3410 * Course has additional prerequisites Courses should be selected in consultation with a faculty advisor. APPROVED ETHICS COURSES (choose one) * Course has additional prerequisites **Recommended Electives** BIO 1000 BIO 1010 CHE 1010 CHE 3890 CPD 2300 CPD 2310 CPD 2320 CPD 2330 HCM 3010 HES 2180 HES 3170 HES 3310 HES 3980 HPL 1840 HPL 1880 HPS 1640 HSL 1440 1040 **HSP** HSP 3750 Holistic Health and High-Level Wellness 4 NUT 2040 PAR 2050 WMS 3910 Electives Requiring Prerequisite Coursework that is not included in the minor* HES 3070 HES 3350 3410 HES HES 3450 HES 3820 HES 4350 Ayurveda Therapy II: Prevention and Management of

HPL	1850	HathaYoga II	2
HPL	1890	Tai Chi Level II	2
HPS	3340	Physiology of Exercise	3
HPS	3780	Fitness Programs for Special Populations	2
HSP	2020	Small Group Dynamics: Theory and Experience	4
NUT	3080	Maternal and Child Nutrition	
NUT	3100	Nutrition and Aging	3
NUT	3200	Nutrition and Sports Performance.	
NUT	3210	Community Nutrition.	3
NUT	3300	Cultural Aspects of Nutrition	3
NUT	3400	Nutrition and Weight Control	3
NUT	3600	Eating Disorders I	3
NUT	4600	Eating Disorders II	3
PHI	3220	Personal Knowledge and Professional Growth	3
PHI	3410	Eastern Philosophies	3
PSY	2850	Psychology of Sexuality	3
PSY	3420	Issues in Social Personality Psychology: Variable Topics	3
PSY	3550	Environmental Psychology	
RECR	3070	Health and Movement Problems in the Aging Adult	3
SOC	3800	Health and Healer	3

HOSPITALITY, TOURISM AND EVENTS DEPARTMENT

The mission of the Hospitality, Tourism and Events Department 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 Hospitality, Tourism and Events Department provides flexible and individualized interdisciplinary major programs with concentrations to include hotel, restaurant, and tourism and events management.

The goals of the Department are:

- 1. Provide instruction and professional assistance to students.
- 2. 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 industry and society.
- 4. Prepare students for graduate study in Hospitality, or Tourism and Events and related fields.
- 5. Provide seminars and workshops for the hospitality industry within Colorado and beyond.
- 6. Conduct applied research in the field of hospitality.
- 7. Increase the quality and accessibility of hospitality education to citizens of Colorado and beyond.
- 8. Provide professional assistance to the hospitality industry and citizens of Colorado.

Students seeking a Bachelor of Arts degree in the Hospitality, Tourism and Events Department have three concentration options:

Hotel Management Concentration prepares students for operations and management positions in various segments of the hotel, motel, lodging and resort industries.

Restaurant Management Concentration prepares students for operations and management positions in commercial and institutional food service areas such as restaurants, clubs, culinary administration, hotels, resorts, schools, colleges, health care, business and industry in plant feeding and catering.

Tourism and Events Management Concentration prepares students for planning, development, operations, and management positions in areas such as travel agencies, tour operators, destination management, adventure travel, corporate meeting planning, conferences, conventions, and trade shows.

The Department offers four minors: Hotel, Restaurant, Tourism, and Special Events.

Students should consult with faculty advisors for selection and approval of a proposed plan of study.

Hospitality, Tourism and Events Major for Bachelor of Arts Degree Requirement

To be awarded a degree, students must complete the departmental requirements, 34 hours of General Studies Course Requirements, 3 hours of Multicultural Graduation Requirement, 3 hours of Senior Experience Graduation Requirement, 39 hours of Major Core Requirements, 21 hours of Concentration Requirements, and 20 hours of electives or a minor plus electives.

Departmental Requirements

- Maintain a grade point average of 2.5.
- Present CPR and first-aid certification.
- Present verification of 1,200 clock hours of on-the-job experience in the HTE Major. These may be secured through paid job experience, cooperative education, internships or a combination of the three. These hours must contain specific descriptions of the job duties performed.
- Review a CAPP compliance result with an advisor no later than the third semester of enrollment (second semester for transfer students) in the Hospitality, Tourism and Events program.

General Studies Course Requirements Level I - Skills				
COURSES SEMESTER HOURS				
Composition (minimum 6 semester hours)				
ENG 1010 Freshman Composition: The Essay				
ENG 1020 Freshman Composition: Analysis, Research and Documentation				
Mathematics (minimum 3 semester hours)				
MTH 1210 Introduction to Statistics*				
Communications (minimum 3 semester hours)				
SPE 1010 Public Speaking				
General Studies Course Requirements Level II - Content Areas				
COURSES				
Historical (minimum 3 semester hours)				
XXX XXX select any course from Level II History approved list				
Arts and Letters (minimum 6 semester hours)				
XXX XXX select any courses from Level II Arts and Letters approved list 6				
Social Sciences (minimum 6 semester hours)				
XXX XXX select any courses from Level II Social Sciences approved list				
Natural Sciences (minimum 6 semester hours)				
NUT 2040 Introduction to Nutrition*				
XXX XXX select any course from Level II Natural Science approved list				
General Studies total credit hours				
*Course has prerequisites; check current MSCD College Catalog for requirements.				
Multicultural Graduation Requirement				
COURSESSEMESTER HOURS				
XXX XXX select any course from Multicultural approved list*				
*Course can be used for General Studies and Multicultural. Senior Experience Graduation Requirement (minimum 3 semester hours)				
Senior Experience Graduation Requirement (minimum 3 semester hours)				
HTE 4000 Hospitality Field Experience I*				
-Or-				
HTE 4040 Hospitality Senior Research*				
-Or-				
HTE 4811 Managing a Destination*				
* Course has prerequisites; check current MSCD College Catalog for requirements.				
Major Core Requirements				
REQUIRED COURSES				
ACC 2010 Principles of Accounting I*				

	HTE	1030	Introduction to Hospitality, Tourism and Events			3
	HTE	2860	Sustainable Tourism			3
	HTE	3570	Hospitality and Tourism Marketing			3
	HTE	3580	Hospitality and Tourism Law		 .	3
	HTE	3750	Hospitality Promotions			3
	HTE	4250	Hospitality for Profit			3
	HTE	4650	Hospitality Human Resources			
	HTE	4730	Hospitality Negotiations and Sales			
	HTE	4860	Hospitality Security and Safety			
	MGT	3000	Organizational Management*			
	MGT	4020	Entrepreneurial Creativity		 .	3
	XXX	XXX	Foreign Language.			
	Total.					
Hote		_	t Concentration			
	•		COURSES			
	HTE	2502	Applied Hotel/Restaurant Operations			
	HTE	2761	Convention Management			
	HTE	2512	Hotel Front Office			
	HTE	3522	Hotel Housekeeping			3
	HTE	3603	Labor and Product Control			
	HTE	3652	Hospitality Property Management			3
	HTE	4201	Adventure Travel and Ecotourism			3
	Total.					21
D		. J. J 191.	(20 4-4-11: -1.1-)			
			ectives (20 total hours available)			
Con			in Other MSCD Programs:			
	ANT	2330	Cross-Cultural Communication*			
		1603	Food Preparation and Sanitation			
	HTE	2613	Food Production and Service I*			
	HTE	3201	Niche Tourism Markets*			
	HTE	3613	Wine Fundamentals*			
	HTE	3623	Food Production and Service II*			
	HTE	3683	Beer and Spirits*			
	HTE	3761	Trade Shows and Expositions*			
	HTE	4010	Hospitality Special Project			
	HTE	4592	Current Topics: Lodging*			
	HTE	4793	Current Topics: Restaurant*			3
	HPL	1330	Golf 1			2
	HPL	1350	Tennis Level I			
	HPS	2060	Emergency Rescue/First Responder & CPR			3
	HPS	2070	Sport Venue Operations			3
	MGT	2500	Small Business Management			3
	MGT	3820	International Business*			3
	*Cour	se has pr	rerequisites; check current MSCD College Catalog for requiremen	its		
_		1				
Tou			ts Management Concentration			
	-		COURSES			
	HTE	1051	Wedding Planning			
	HTE	1811	Reservation and Destination Resources			
	HTE	2761	Convention Management			
		3201	Niche Tourism Markets			
	HTE	3761	Trade Shows and Expositions			
	HTE	3871	Cruise Tourism			
	HTE	4201	Adventure Travel and Ecotourism			
	Total.					21

Recomn	ende	d Elec	tives (20 total hours available)
Conside	r a Mi	inor in	n Other MSCD Programs
AN	T 13	10 I	Introduction to Cultural Anthropology*
AN	T 23		Cross-Cultural Communication*
AN	T 33	00 E	Exploring World Cultures: Variable Topics*
CE'	Г 33	20 E	Environmental Impact Statement* 3
EN	V 14		World Resources*
GE	G 10	V 000	World Regional Geography*3
GE	G 11	20 (Orienteering1
GE	G 12	20 N	Map Use
GE	G 16	10 I	Introduction to Planning
HT	E 36	52 I	Hospitality Property Management*
HT	E 40	10 F	Hospitality Special Project
HT	E 48		Current Topics: Tourism and Events*
HP	L 14		Backpacking and Camping2
HP	S 20		Emergency Rescue/First Responder & CPR
MC	T 25		Small Business Management
MC	T 38		International Business*
МТ	R 14	.00 V	Weather and Climate*
*Ca	ourse h		requisites; check current MSCD College Catalog for requirements.
Restaura	ant Ma	anagei	ment Concentration
			OURSESSEMESTER HOURS
	E 15		Food Selection and Identification
HT	E 16	603 F	Food Preparation and Sanitation
HT	E 26		Food Production and Service I
HT	E 36		Labor and Product Control
HT	E 36	13 V	Wine Fundamentals**
HT	E 36		Food Production and Service II
HT	E 36	43 I	Healthy Cooking
Tot	al		
**\	Iust be	e 21 yea	ars of age or older.
Recomn	nende	d Elect	tives (20 total hours available)
Conside	r a Mi	inor in	n Other MSCD Programs
AN			Cross-Cultural Communication*
GE	G 10	V 000	World Regional Geography*
HT	E 10		Wedding Planning
HT	E 27		Convention Management
HT	E 37		Frade Shows and Expositions*
HT	E 36		Beer and Spirits** 3
HT	E 38		Baking and Pastry* 3
HT			Hospitality Special Project
HT	E 46		Advanced Study of Wine**
HT	E 47		Current Topics: Restaurant*
HP			Emergency Rescue/First Responder & CPR
	T 25		Small Business Management
	T 38		International Business*
NU			Nutrition and Aging*
NU			Community Nutrition*
*Ca	ourse h		requisites; check current MSCD College Catalog for requirements.
			ars of age or older.

Minors

The department offers four minors: hotel, restaurant, tourism and special events. These minors are open to students at MSCD majoring in another field of study, other than HTE. The minors provide specialized knowledge specific to the area with concentration on the application of business and management principles.

Ho	tel Min	or		
	REQU	JIRED (COURSESSEMESTE	ER HOURS
	HTE	1030	Introduction to Hospitality, Tourism and Events	
	HTE	2502	Applied Hotel/Restaurant Operations	3
	HTE	2512	Hotel Front Office	3
	HTE	3522	Hotel Housekeeping	3
	HTE	3652	Hospitality Property Management	3
	HTE	4860	Hospitality Security and Safety	3
	Subto	tal		
			ives approved by advisor.	
	Subto	tal		6
	Total.			24
Dar	tauran	t Mino		
Nes			COURSESSEMESTI	тр попре
	HTE	1030	Introduction to Hospitality, Tourism and Events	
		1533	Food Selection and Identification	
			Food Preparation and Sanitation	
	HTE	1603	Food Production and Service I	
	HTE HTE	2613 3603		
	HTE	3623	Labor and Product Control	
			Food Production and Service II	
			ives approved by advisor.	10
	Subto	tal	ives approved by advisor.	6
	10ш.			
Γοι	ırism M	linor		
	REQU	JIRED (COURSESSEMESTE	
	HTE	1030	Introduction to Hospitality, Tourism and Events	
	HTE	1811	Reservation and Destination Resources.	
	HTE	2860	Sustainable Tourism	
	HTE	3201	Niche Tourism Markets	
	HTE	3871	Cruise Tourism	
		4201	Adventure Travel and Ecotourism	
			ives approved by advisor.	
	Total.			24
Sn	ecial Ev	ents M	finor	
۰r			COURSESSEMESTI	ER HOURS
	-		Introduction to Hospitality, Tourism and Events	
			Convention Management	
	HTE	3570	Hospitality and Tourism Marketing	
	HTE	3761	Trade Shows and Expositions	
	HTE	3871	Cruise Tourism.	
	HTE	4730	Hospitality Negotiations and Sales.	
			ives approved by advisor.	
				6

HUMAN PERFORMANCE AND SPORT DEPARTMENT

The Human Performance and Sport Department offers coursework leading to a bachelor of arts degree. Students preparing for work in industry or graduate study can choose from the concentrations of adult fitness and exercise science, athletic training, sport and allied fields, sport industry operations. Those students preparing to teach must complete the coursework in the K-12 Physical Education concentration.

Students seeking teaching credentials in physical education must satisfy the teacher licensure program at MSCD in addition to all the requirements of the Human Performance and Sport Department. Requirements for formal admission to the teacher licensure programs, as listed under the teacher education programs section of this *Catalog*, must also be met. Students should contact the Teacher Education Department for information regarding teacher licensure programs (West Classroom 136).

Additional requirement: A grade of "C" or better is required for all HPS courses taken in any major/minor concentrations.

Human Performance and Sport Major for Bachelor of Arts

K-12 Physical Education Concentration

General Studies (Required courses for K-12 Physical Education)

Arts and Letters Communications SPE 1010 Public Speaking Composition	. 6
SPE 1010 Public Speaking	
Composition	. 3
ENG 1010 Freshman Composition: The Essay	. 3
ENG 1020 Freshman Composition: Analysis, Research, and Documentation	. 3
Historical	. 3
Mathematics	
MTH 1610 Integrated Mathematics I	. 3
Natural Sciences	
BIO 1080 General Biology I	. 3
BIO 1090 General Biology I Laboratory	. 1
BIO 2310 Human Anatomy and Physiology I	. 4
BIO 2320 Human Anatomy and Physiology II	. 4
Social Sciences	
HES 1050 Dynamics of Health	. 3
EDS 3200 Educational Psychology Applied to Teaching	. 3
Multicultural	
EDS 3110 Processes of Education in Multicultural Urban Secondary Schools	. 3
Subtotal	.42
Courses in the Major for K-12 Physical Education	
Courses in the Mayor for it 12 in ordan Education	
COURSES SEMESTER HOUR	JRS
Professional Activity Courses (Required)	
HSL 1020 Skills and Methods of Teaching Weight Training	
HSL 1040 Skills and Methods of Teaching Activities for the Young Child	
HSL 1050 Skills and Methods of Teaching Rhythms for the Young Child	
HSL 1060 Skills and Methods of Teaching Activities for Seccondary Students	. 2
Total	8
A. Individual Sports (4 credits required)	
HSL 1010 Skills and Methods of Teaching Tumbling and Gymnastics	. 2

	HSL	1210	Skills and Methods of Teaching Archery, Track and Field, and Fitness
	HSL	1220	Skills and Methods of Teaching Bowling, Golf and Recreational Activities 2
	HSL	1230	Skills and Methods of Teaching Tennis, Pickleball and Badminton
	HSL	1240	Skills and Methods of Teaching Wrestling and Personal Defense and Yoga 2
	HSL	1300	Skills and Methods of Teaching Country Western and Folk Dance
	HSL	1400	Skills and Methods of Teaching Camping, Backpacking and Orienteering 2
			ts (4 credits required)
	HSL	1100	Skills and Methods of Teaching Team Handball, Lacrosse, and Basketball
	HSL	1110	Skills and Methods of Teaching Soccer, Volleyball and Softball
	HSL	1110	Skills and Methods of Teaching Basketball and Softball
	HSL		· · · · · · · · · · · · · · · · · · ·
		1130	Skills and Methods of Teaching Flag Football, Field Hockey and Floor Hockey 2
	HSL	1410	Skills and Methods of Teaching Teambuilding, Initiative and
	T . 1		Ropes Course Activities
		ry Classe	
	HPS	1600	Introduction to Human Performance and Sport
	HPS	1623	Prevention and Care of Athletic Injuries
	HPS	1640	Physical Fitness Techniques and Programs
	HPS	2060	Emergency Rescue/First Responder & CPR
	HPS	3000	Health Programs in Human Performance and Sport
	HPS	3300	Anatomical Kinesiology
	HPS	3340	Physiology of Exercise
	HPS	3400	Methods of Teaching Secondary Physical Education*
	HPS	3410	Field Experience in Secondary Physical Education*
	HPS	3460	Measurement and Evaluation in Human Performance and Sport
	HPS	3500	Methods of Teaching Elementary Physical Education**
	HPS	3510	Field Experience in Elementary Physical Education**
	HPS	4500	Motor Learning and Development
	HPS	4620	Adapted Human Performance and Sport Activities
	HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators
	EDS	3110	Processes of Education in Multicultural Urban Secondary Schools ***2
	EDS	3120	Field Experiences in Multicultural Urban Secondary Schools***1
		3280	Teaching Literacy Skill Development in the Content Areas
	EDT	3610	Applications of Educational Technology
	EDU		Student Teaching and Seminar: Elementary K-6
	EDS	4290	Student Teaching and Seminar: Secondary 7-12.
			tive
	11		n Hours for K-12 Physical Education Major
			d HPS 3410 must be taken concurrently.
			,
			nd HPS 3510 must be taken concurrently.
			and EDS 3120 must be taken concurrently.
	-		icultural requirement.
	² Must	be taker	a before HPS 3400, HPS 3410, HPS 3500, or HPS 3510.
Spo	rt and	d Allie	d Fields Concentration
_	DEOI:	IDED C	OLIDOEC CEMECTED HOLIDO
	-		OURSES
	HPS	1600	Introduction to Human Performance and Sport
	HPS	2060	Emergency Rescue/First Responder & CPR (or valid American Red Cross Card)
	HPS	3300	Anatomical Kinesiology
	HPS	3320	Biomechanics
	HPS	3340	Physiology of Exercise
	HPS	3620	Trends and Issues in Human Performance and Sports
	HSL		Skills and Methods Courses
	RECR	4730	Sociology of Athletics in American Society

Approved Electives*	. 1	3
Total	4	14

*To be selected in accordance with student's intended career objectives. Must be preplanned with an advisor in the Human Performance and Sport Department and approved by the department chair.

A minor is required for this concentration.

Athletic Training Education Program (ATEP)

Athletic Training Concentration

The Athletic Training Education Program (ATEP), a concentration and extended major within the Department of Human Performance and Sport, is designed for the student desiring a career in the allied health care field of athletic training. The objective of the ATEP at MSCD is the professional preparation of athletic training students, qualifying them to sit for the National Athletic Trainers Associate Board of Certification (NATABOC) exam. Upon successful completion of the NATABOC exam, the athletic training graduate may practice as a certified athletic trainer (ATC).

Completion of this program eliminates the need for a minor as it is considered an extended major.

The necessary steps for students wishing to pursue athletic training as a field of study are as follows:

- Contact the ATEP Director for academic advising and declaration of major.
- Enroll in and complete the following courses with a grade of "C" or better:
- BIO 1080 & 1090-General Biology I and Lab (prerequisites for BIO 2310)*HPS 1623-Prevention and Care of Athletic Injuries *HPS 2060-Emergency Rescue/First Responder and CPR
- Ideally these courses should be taken during the freshman year.
- Equivalent transfer courses may be considered

Following completion of the above courses, all students, including transfer students **must** meet specific criteria to continue in the ATEP and begin the remaining six-semester sequence of athletic training corequisite, didactic/clinical courses. The sequence begins each fall. Please note the following:

Students must meet criteria to continue in the Athletic Training Education Program

Six semesters are required to complete the Athletic Training Education Program.

The sequence begins only in the fall semester.

Candidates for continuation, including transfer students, in the ATEP **must** comply with all program continuation standards. These specific criteria are as follows:

- Indicate a desire to continue in the Athletic Training Education Program by submitting the completed ATEP Continuation Intent Form.
- Have completed BIO 1080 & 1090, HPS 1623, and HPS 2060 with a grade of "C" or better.
- Have completed a minimum of 12 semester hours with a cumulative grade point average (GPA) of 2.5 or higher on a 4-point scale, or 3.0 or better in the last 30 credit hours completed.
- Write and submit a brief summary of professional goals and objectives, indicating sincere interest and commitment in athletic training as a profession.
- Obtain and submit three character reference letters. One should be from a college faculty member (MSCD athletic training faculty are excluded).
- Have proof of current immunizations for DPT, MMR, TB, and hepatitis B (or HBV declination).
- Carry individual/personal student athletic trainer malpractice/liability insurance in the amount of \$1,000,000/\$3,000,000.
- Submit a signed statement indicating acknowledgement of the ATEP continuation criteria and policies and procedures.

These materials must be submitted as a packet to the ATEP director no later than March 1st in order to be considered for continuation and beginning the athletic training sequenced courses.

Following submission of these materials, an interview will be scheduled with the athletic training committee.

Students will be notified of their status in the ATEP by April 30th.

Transfer students <u>must</u> meet all of the continuation criteria in order to begin the six-semester sequence of athletic training didactic/clinical corequisite courses.

Following initial continuation and completion of the first semester of the athletic training six-semester sequence, students must maintain a cumulative GPA of 2.5 and major GPA of 2.75. If either GPA falls below the minimum, one of the following will occur:

- The student will be placed on probation and have one semester to bring the GPA(s) up to acceptable levels, while remaining in the course sequence.
- If the student fails to bring the GPA(s) up to acceptable levels after one semester, the student will be suspended from the major until the minimum GPA(s) is/are achieved. Resumption in the ATEP will commence in the appropriate sequential semester.
- If, after two semesters, the student does not bring the GPA(s) to acceptable levels, the student will be dismissed from the ATEP.
- If the GPA(s) is/are raised to the minimum, the dismissal may be appealed.

Third and fourth year athletic training students will be notified of their status by June 1st of each year.

Candidates for continuation in the Athletic Training Education Program also **must** demonstrate the following ATEP technical standards:

- 1. The mental capacity to assimilate, analyze, synthesize, and integrate concepts and problem solving to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm:
- 2. Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely, and efficiently use equipment and materials during the assessment and treatment of patients;
- 3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- 4. The ability to record the physical examination results and a treatment plan clearly and accurately;
- 5. The capacity to maintain composure and continue to function well during periods of high stress;
- 6. The perseverance, diligence, and commitment to complete the athletic training education program as outlined and sequenced;
- 7. Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- 8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Please note the following:

- Students must graduate from a CAAHEP accredited Athletic Training Education Program to be eligible to sit for the NATABOC examination.
- The MSCD Athletic Training Education Program successfully completed CAAHEP accreditation.

REQU	REQUIRED COURSES			
BIO	2320	Human Anatomy and Physiology II	4	
HPS	1623	Prevention and Care of Athletic Injuries	3	
HPS	1640	Physical Fitness Techniques and Programs	2	
HPS	2060	Emergency Rescue/First Responder & CPR	3	
HPS	2220	Foundations of Athletic Training ¹	3	

HPS	2221	Athletic Training Clinical Experience I ¹	2
HPS	2790	Pathology of Athletic Injury/Illness	
HPS	2860	Therapeutic Modalities in Sports Medicine ²	3
HPS	2861	Athletic Training Clinical Experience II ²	2
HPS	3000	Health Programs in Human Performance and Sport	
HPS	3300	Anatomical Kinesiology	3
HPS	3340	Physiology of Exercise	
HPS	3830	Upper Body Injury Evaluation ³	3
HPS	3831	Athletic Training Clinical Experience III ³	2
HPS	3850	Lower Body Injury Evaluation ⁴	3
HPS	3851	Athletic Training Clinical Experience IV ⁴	2
HPS	4660	Legal Liability for Physical Educators, Coaches, and Administrators	3
HPS	4750	Upper Body Injury Rehabilitation ⁵	3
HPS	4751	Athletic Training Clinical Experience V ⁵	2
HPS	4770	Lower Body Injury Rehabilitation ⁶	2
HPS	4771	Athletic Training Clinical Experience VI ⁶	2
HPS	4850	Seminar in Athletic Training.	3
NUT	2040	Introduction to Nutrition	3
PSY	3100	Psychology of Counseling	3
Total.			5
1 HPS	2220 and	HPS 2221 must be taken concurrently in the fall semester.	
² HPS	2860 and	HPS 2861 must be taken concurrently in the spring semester.	
3 ырс	2020 and	UDS 2021 must be taken consumantly in the fall connector	

Please Note:

• Required General Studies courses (fulfill Natural Science General Studies requirement):

BIO 1080 & 1090–General Biology I and Lab BIO 2310–Anatomy and Physiology I

The Athletic Training Clinical Experience courses; HPS 2221, 2861, 3831, 3851, 4751, and 4771, meet for 1 hour per week at MSCD and **require** a minimum of 13 hours per week at assigned affiliated athletic training sites in the Denver Metro area. The ATEP director and clinical coordinator will determine placement at these sites. Students will be rotated to various sites during the six-semester sequence.

Adult Fitness and Exercise Science Concentration

This concentration is for those seeking an entrance into the adult fitness profession or those who have aspirations in the exercise science field through advanced degree work in exercise physiology. For those interested and capable of pursuing an advanced graduate degree with adult fitness and exercise science as a foundation, there are careers in research, college teaching, hospitals, and private corporate fitness program development.

PROFESSIONAL ACTIVITY COURSES

HSL HSL	1020 1440	Skills and Methods of Teaching Weight Training
BASIC	THEO	RY COURSES
COUF	RSES	
HPS	1623	Prevention and Care of Athletic Injuries
HPS	1640	Physical Fitness Techniques and Programs
HPS	3300	Anatomical Kinesiology
HPS	3340	Physiology of Exercise

³ HPS 3830 and HPS 3831 must be taken concurrently in the fall semester.

 $^{^4}$ HPS 3850 and HPS 3851 must be taken concurrently in the spring semester.

 $^{^{5}}$ HPS 4750 and HPS 4751 must be taken concurrently in the fall semester.

⁶ HPS 4770 and HPS 4771 must be taken concurrently in the spring semester.

HPS	3780	Fitness Programs for Special Populations	2
HPS	4200	Community Fitness Testing and Program Planning	3
HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators	3
HPS	4680	Advanced Exercise Assessment Techniques	3
HPS	4840	Comparative Fitness Programs.	2
HPS	4880	Internship for Adult Fitness	0
RECR	3070	Health and Movement Problems in the Aging Adult	3
NUT	2040	Introduction to Nutrition	3
PSY	2410	Social Psychology	3
Subtot	al	4	3
Total			7

Note: Students must have a 2.75 GPA to be eligible for an internship.

It is recommended that students take HPS 2060, Emergency Rescue/First Responder and CPR, or verify equivalent certification.

Sport Industry Operations Concentration

This concentration is intended to be of interest to students and practicing professionals who want to explore the business side of sport industry operations.

REQUI	REQUIRED COURSES SEMESTER HOURS				
HPS	2050	Sport Industry			
HPS	2070	Sport Venue Operations			
HPS	3990	Field Experience, Sport Industry Operations			
HPS	4600	Organization, Administration and Curriculum of Human Performance			
		and Sport			
HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators			
HPS	4890	Internship for Sport Industry Operations*			
HPS	3100	Sport Industry Media Operations			
MGT	3000	Organizational Management			
MKT	3500	Sports Marketing			
Subtotal					
Approved Electives					
	Total hours 40				

Note: Students must have a 2.75 GPA to be eligible for an internship.

Note: Students majoring in Sport Industry Operations are required to select a minor from the School of Business.

Human Performance and Sport Minor

The human performance and sport minor concentrations are for non-majors in human performance and sport. Programs are open to all other disciplines of study within the College. The primary objective is to provide instructional studies in a liberal arts institution in human performance and sport, thereby enhancing one's knowledge, understanding, and skillful use of this area of study to pursue a better quality of life.

Minor programs will not meet requirements for teacher licensure with the Colorado Department of Education.

Additional requirement: A grade of "C" or better is required for all human performance and sport courses taken in any major/minor concentration.

Elementary Physical Education Concentration

REQUIRED COURSES			SEMESTER HOURS
HPS	1640	Physical Fitness Techniques and Programs	
		Activities and Health for the Elementary Child	

^{*}May take 10 hours of advisor-approved upper-division course work in place of internship.

Must Total. *and/ coaching COUNTY HPS HPS HPS HPS HPS HPS HPS HPS Total.	be preplation of the property	anned with an advisor in the Human Performance and Sport Department
Must Total. *and/ coaching COUNTY HPS HPS HPS HPS HPS HPS HPS HPS ARECH Total.	be preplation of the property	entration SEMESTER HOURS Prevention and Care of Athletic Injuries Physical Fitness Techniques and Programs Fundamentals of Coaching Science and Art of Coaching and Athletic Administration Field Experience in Human Performance and Sport (Coaching) Legal Liability for Physical Educators, Coaches and Administrators Skills and Methods of Teaching Weight Training Sociology of Athletics in American Society. SEMESTER HOURS SEMESTER HOURS
Must Total. *and/ coaching COUNTY HPS HPS HPS HPS HPS HPS HPS HPS Total.	be preplation of the property	entration SEMESTER HOURS Prevention and Care of Athletic Injuries. Physical Fitness Techniques and Programs. Science and Art of Coaching. Science and Art of Coaching and Athletic Administration. Field Experience in Human Performance and Sport (Coaching). Legal Liability for Physical Educators, Coaches and Administrators. Skills and Methods of Teaching Weight Training. Sociology of Athletics in American Society.
Must Total. *and/ coaching COUNTY HPS HPS HPS HPS HPS HPS HPS HPS Total.	be preplation of a valid of a val	entration SEMESTER HOURS Prevention and Care of Athletic Injuries Physical Fitness Techniques and Programs Fundamentals of Coaching Psychology of Coaching Science and Art of Coaching and Athletic Administration Field Experience in Human Performance and Sport (Coaching) Legal Liability for Physical Educators, Coaches and Administrators Skills and Methods of Teaching Weight Training Sociology of Athletics in American Society.
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Must Total. *and/ boachin COUNTY HPS	be preplation of a valid g Concerns SES 1623 1640 2720 3700 3720 3990 4660 1020	entration SEMESTER HOURS Prevention and Care of Athletic Injuries. Physical Fitness Techniques and Programs. Fundamentals of Coaching. Psychology of Coaching. Science and Art of Coaching and Athletic Administration. Field Experience in Human Performance and Sport (Coaching). Legal Liability for Physical Educators, Coaches and Administrators. Skills and Methods of Teaching Weight Training.
Must Total. *and/ coaching COUTHPS HPS HPS HPS HPS HPS HPS HPS HPS HPS	be preplation of a valid g Concerns SES 1623 1640 2720 3700 3720 3990 4660	entration SEMESTER HOURS Prevention and Care of Athletic Injuries. Physical Fitness Techniques and Programs. Fundamentals of Coaching. Psychology of Coaching. Science and Art of Coaching and Athletic Administration. Field Experience in Human Performance and Sport (Coaching). Legal Liability for Physical Educators, Coaches and Administrators.
Must Total. *and/ coachin COUNTY HPS HPS HPS HPS HPS HPS HPS HPS	be preplation of a valid of a valid of a valid of a valid of section of a valid of a val	entration SEMESTER HOURS Prevention and Care of Athletic Injuries. Physical Fitness Techniques and Programs. Fundamentals of Coaching. Psychology of Coaching. Science and Art of Coaching and Athletic Administration. Field Experience in Human Performance and Sport (Coaching).
Must Total. *and/ coachin COUNTY HPS HPS HPS HPS HPS HPS	be preplation of a valid of a valid of a valid of a valid of section of a valid of a val	entration SEMESTER HOURS Prevention and Care of Athletic Injuries Physical Fitness Techniques and Programs Fundamentals of Coaching Psychology of Coaching Science and Art of Coaching and Athletic Administration
Must Total. *and/ oachin COUN HPS HPS HPS HPS	be preplación a valida de Concerses 1623 1640 2720 3700	23d Advanced American Red Cross Card and 3 hours of HPSL Department electives entration SEMESTER HOURS Prevention and Care of Athletic Injuries
Must Total. *and/ coachin HPS HPS HPS	be prepla 	23d Advanced American Red Cross Card and 3 hours of HPSL Department electives entration SEMESTER HOURS Prevention and Care of Athletic Injuries
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Must Total.	be prepla	
Must Total.	be prepla	
Must	be prepla	· ·
		1 11 11 1 1
Λ	oved Elec	tives: Selected in accordance with student's intended career objectives.
	R 4730	Sociology of Athletics in American Society.
HSL		Skills and Methods Courses
HPS	3620 VVVV	Trends and Issues in Human Performance and Sports.
HPS	2060	Emergency Rescue/First Responder & CPR*
HPS	1600	Introduction to Human Performance and Sport
COU		Introduction to Human Performance and Sport
ort or	d 411; ^	d Fields Concentration
		d 3410 must be taken concurrently.
Total.		
HSL	XXXX	Skills and Methods Courses
HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators
HPS	4500	Motor Learning and Development
HPS	3460	Measurement and Evaluation in Human Performance and Sport
HPS	3410	Field Experience in Secondary Physical Education*
HPS	3400	Methods of Teaching Secondary Physical Education*
HPS	1640	Physical Fitness Techniques and Programs
COU	RSES	
conda	ry Phys	sical Education Concentration
1110	3300 um	3310 must be taken concurrently.
		d 3510 must be taken concurrently.
		Skills and Methods of Teaching Rhythms for the foung Child
HSL HSL	1040 1050	Skills and Methods of Teaching Activities for the Young Child
	1030	Skills and Methods of Teaching Physical Activities for Special Populations
	1010	Skills and Methods of Teaching Tumbling and Gymnastics
HSL		
	4660	
HSL HSL	4500 4660	Legal Liability for Physical Educators, Coaches and Administrators
HPS HSL HSL		Field Experience in Elementary Physical Education*. 2 Motor Learning and Development. 3 Legal Liability for Physical Educators, Coaches and Administrators 3
HPS HPS HSL HSL	4500	Motor Learning and Development

	HSL	1010	Skills and Methods of Teaching Tumbling and Gymnastics	2
	HSL	1310	Skills and Methods of Teaching Modern and Jazz Dance	2
	HSL	1330	Skills and Methods of Teaching Improvisation and Choreography	2
	Select	two of t	he following electives:	
	HPS	1623	Prevention and Care of Athletic Injuries	3
	HSL	1050	Skills and Methods of Teaching Rhythms for the Young Child	2
	HSL	1340	Skills and Methods of Teaching Rhythms for Special Populations	2
	Total.			0
Adı	ılt Fit	ness a	nd Exercise Science Concentration	
1101	<i>a</i> 16 1 16	iicss a	nd Exercise ocience concentration	
	COUF	RSES		S
	HPS	3780	Fitness Programs for Special Populations	2
	HPS	3990	Field Experience in Human Performance and Sport	3
	HPS	4680	Advanced Exercise Assessment Techniques	3
	HPS	4840	Comparative Fitness Programs	2

Health and Safety Minor

RECR 3070

NUT 2040

The concentration in health education is intended to prepare students to teach health education at either the secondary, elementary, or K–12 level. This is an excellent concentration for students who are obtaining a teaching license in another area or for nurses who are interested in the area of school health nurse.

PSY 2410 Social Psychology. 3
HPS Electives (selection based on exercise science needs). 3
Total. 20–22

Health Education Concentration

COUF	RSES	
CJC	3510	Drug Abuse: Legal Issues and Treatment
HPS	2020	Community Health
HPS	2060	Emergency Rescue/First Responder & CPR
HPS	3000	Health Programs in Human Performance and Sport
HPS	3910	Safety Education
NUT	2040	Introduction to Nutrition
PSY	3250	Child Psychology
	-or-	
PSY	3260	Psychology of Adolescence
Total.		

HUMAN SERVICES DEPARTMENT

The Human Services Department at Metropolitan State College of Denver prepares students for careers in the helping professions: assisting individuals, couples, and families meet the challenges of living throughout the life cycle. The core curriculum offers courses in the theory and practice of mental health counseling, including applied behavioral analysis, small group dynamics, ethical and legal issues, psychopathology and the mental health clinician, and practicum and internship experiences where students apply the theory they have studied thus developing their application skills in human service work settings. Human Services' six concentrations are based on a counseling and mental health services curriculum.

Our nationally recognized curriculum, approved by the Council of Standards in Human Service Education and the Alcohol and Drug Abuse Division of the Colorado Department of Human Services, pro-

vides course work in assessment, prevention, and intervention of mental health concerns. Colorado State certification may be sought in addiction intervention theory and techniques as well as domestic violence counseling. Other specialized education programs include high-risk youth intervention, prevention, and counseling, and nonprofit administration principles. Multicultural issues in the delivery of human services are addressed throughout the curriculum noting in particular cultural diversity issues of race/ethnicity, gender, socioeconomic class, religion, sexual orientation, age, physical, and mental abilities in the delivery of human services. The core curriculum can be supplemented with a concentration in counseling and mental health services, high-risk youth, drug and alcohol counseling, domestic violence counseling, paramedic, or nonprofit organization administration. Field instruction at community agencies furthers textbook learning and provide networking opportunities for students.

Graduates with degrees in human services are qualified to work in a variety of settings, including community mental health centers, addiction centers, nonprofit organizations, employee assistance programs, religious organizations, and social service agencies. Our program has generated an 87 percent employment rate for our graduates in careers directly related to the major. State certification in addictions studies or domestic violence is available to graduates. Over half of our graduates go on to complete graduate degrees and licensure or practice requirements in human services, marriage and family counseling, psychology, pastoral counseling, social work, addiction studies, public administration, or other areas, including business and law. If graduate study is part of your career plans, please talk with an advisor about your options and necessary course work for entry into such programs.

Human Services Major for Bachelor of Science

The student must meet the college's graduation requirements for a baccalaureate degree, complete the General Studies requirements of the College, and the Human Services core courses listed below.

Specific concentrations have differing recommendations for General Studies; see your advisor. Human Services Concentrations are: counseling and mental health services, addiction studies, domestic violence counseling, high risk youth studies, nonprofit organization administration, and paramedic. Students who major in Human Services are not required to complete a minor.

A letter grade of "C" or better is required in each Human Services core course and each course specifically required for a concentration.

Core Classes for Major

REQUIRED COURSES		
HSP 1010	Introduction to Human Services and Community Resources	
HSP 1040	Applied Behavior Analysis	
HSP 2020	Small Group Dynamics: Theory and Experience	
HSP 2030	Theory and Practice of Counseling	
HSP 2040	Family Systems	
HSP 2050	Human Services Practicum I	
HSP 3330	Ethical and Legal Issues in the Helping Professions	
HSP 3490	Multicultural Issues in Human Services	
HSP 4790	Professional Internship	
<i>Core Total</i>		

HSP prefix: Human Services Professional

Counseling and Mental Health Services Concentration

The Counseling and Mental Health Services Concentration teaches students counseling theory and develops counselor-client interaction skills in assisting clients to cope with life's personal and emotional challenges. This concentration prepares students for entry-level employment in community mental health, non-profit counseling agencies, employee assistance programs, and general social service delivery systems under the supervision of licensed mental health professionals. This concentration additionally prepares students to pursue graduate education in a variety of areas including: human services, coun-

seling psychology, social work direct services, addiction counseling, marriage and family, and pastoral counselor programs. Students should note that professional counseling licensure requires the completion of a graduate degree, successfully passing a comprehensive examination, and a period of supervised practice, by a licensed mental health professional.

REQU	IRED C	OURSES SEMESTER HOUR	S
Huma	n Servi	ces Core 4	7
HSP	4320	Psychopathology and the Mental Health Clinician	4
Electiv	es may	be chosen from any concentration, or from the following list of Human Services electiv	ve
(12 cr	edits req	uired):	
HSP	1110	Introduction to Disabilities.	4
HSP	1470	Addictive Experiences: Sex, Drugs, Rock and Roll.	
HSP	2060	Human Services Practicum II.	
HSP	2110	Inclusive Community Services for People with Disabilities	3
HSP	3040	Brief Therapy for Couples.	
HSP	3220	Conflict Resolution and Decision-Making	2
HSP	3410	Addiction Family Counseling/Advanced Topics	3
HSP	3430	Addictive Behaviors	
HSP	3450	Crisis Intervention.	3
HSP	3480	Applied Counseling Skills	2
HSP	3710	Research Methods for Human Services	
HSP	3750	Holistic Health and High-Level Wellness	
HSP	4040	Cognitive Behavior Therapy	
HSP	4100	Gerontology for Human Service Professionals	
HSP	4200	Child Abuse and Neglect.	
HSP	4250	Counseling the Gay or Lesbian Client	
HSP	4360	Advanced Intervention Techniques	
HSP	4490	Contemporary Issues in Human Services: Variable Topics1-	4
HSP	4520	Grief Counseling	
HSP	4540	Youth, Drugs and Gangs	2
Subto	tal for El	lectives	2
Total l	hours for	r major	3
Gener	al Studi	es*	3
Electiv	ves	2	4
Total f	for the D	Degree	0

The Center for Addiction Studies

The Center for Addiction Studies offers four programs:

- a counselor training program in drugs, alcohol, and addictive behavior counseling (subject to ADAD CAC certification requirements)
- a concentration in drug, alcohol and addictive behaviors
- a counselor training program in domestic violence counseling (fulfilling state certification requirements)
- a concentration in domestic violence counseling.

Individuals interested in these programs should contact the Center for Addiction Studies in the Department of Human Services for further information at 303-556-2951.

^{*}Students should consult an advisor for recommended General Studies courses.

Addiction Studies Concentration

This concentration will provide students with a breadth of knowledge and skills that are in high demand in all human/behavioral/mental health services. Students learn about drug/alcohol as well as other addictive behaviors such as smoking, gambling and eating disorders. The counseling skills knowledge and training students receive are on the cutting edge of evidence-based outcome studies. Graduates attain skills and attitudes necessary to function as professional addiction counselors. Upon completion of the program students are eligible to apply for certification in Colorado as an addiction counselor.

REQUI	REQUIRED COURSES		
Human Services Core			
HSP 2	2060	Human Services Practicum II	8
HSP 3	3460	Addiction, Immunity and Infectious Diseases	2
	3470	Counseling the Substance Abuser	
Subtota	<i>l</i>		61
Recomr	mende	ed Electives:	
HSP 3	3400	Pharmacology of Drugs and Alcohol	3
HSP :	3430	Addictive Behaviors	3
HSP 3	3480	Applied Counseling Skills	2
HSP 3	3560	Motivational Interviewing	2
HSP 3	3580	Therapeutic Resistance	1
HSP 4	4040	Cognitive Behavior Therapy	
HSP 4	4250	Counseling the Gay or Lesbian Client	2
HSP 4	4320	Psychopathology and the Mental Health Clinician	
HSP 4	4520	Grief and Loss	3
HSP 4	4660	Clinical Supervision in Human Services	3
Total ha	oure for	* the major with Addiction Studies Concentration	61
Total hours for the major with Addiction Studies Concentration			
		ies	
Unrestricted electives			
Total ho	Total hours required for degree		

Domestic Violence Counseling Concentration

A concentration in domestic violence counseling provides the student with a broad knowledge base through the core classes in human services and with knowledge and skills essential for working with perpetrators and victims of abuse. The courses included in this concentration are based on the standards established by the State Commission on Educational Standards in Domestic Violence Counseling. Once the student has completed the required courses, application may be made for state certification as a provider of domestic violence counseling. Included in the concentration are many of the courses required for certification as a substance abuse counselor. These classes have been designated because of the close relationship between domestic violence and substance abuse.

REQUIRED COURSES				
Human Services Core 47				
HSP	3400	Pharmacology of Drugs and Alcohol*		
HSP	3470	Counseling the Substance Abuser		
HSP	3500	Domestic Violence: Patterns of Relationship Abuse		
HSP	3580	The Resistive Client**		
HSP	3600	Domestic Violence: Perpetrators of Abuse		
HSP	4280	Gender Issues in Treatment and Recovery		
HSP	4290	PTSD Counseling		
HSP	4320	Psychopathology and the Mental Health Clinician		
Subto	tal			
Recommended electives (3 credits required):				
HSP	3040	Brief Therapy for Couples		
HSP	3220	Conflict Resolution and Decision-Making		

HSP	3430	Addictive Behaviors
HSP	4200	Child Abuse and Neglect
HSP	4250	Counseling the Gay or Lesbian Client
HSP	4360	Advanced Intervention Techniques
HSP	4540	Youth, Drugs and Gangs
Subtot	al of elec	tives
Total f	or the m	ajor
To cor	nplete t	he 120 semester hours required for the degree, 18 hours of additional electives are
requir	ed. Thes	e hours may be taken either inside or outside the Human Services Department. Some
sugges	ted elec	tives from other departments:
COUR	SES	
PSY	2210	Psychology of Human Development
PSY	2850	Psychology of Sexuality
PSY	3050	Psychology of Gender
PSY	3470	Psychology of Violence and Aggression
PSY	3480	The Psychology of Women
SOC	2500	Deviant Behavior in Society
SOC	3430	Sociology of Gender Roles
WMS	1001	Introduction: Woman in Transition
WMS	234B	Stress Management
WMS	3310	Women and the Law
Subtot	al of elec	tives
Total l	iours for	the major with Domestic Violence Counseling concentration
Gener	al Studie	es
Electiv	res	
-		egree
*Requi	ired prere	equisite: BIO 1000 Human Biology for Non-Majors (may be applied to General Studies)
**Note	e: Dome:	stic Violence students may not substitute HSP 3590 (The Resistive Adolescent Client),
for HSP 3580 (The Resistive Client)		

Please see an advisor to discuss Domestic Violence certification requirements.

The Center for Effective Interventions

The Center for Effective Interventions (CEI), formerly the Colorado MST Support Services Office, disseminates multisystemic therapy throughout Colorado.

The Center for High Risk Youth Studies

The Center for High Risk Youth Studies offers both a concentration for the human services degree and a certificate of completion program.

High Risk Youth Studies Concentration

This concentration prepares the human services professional to work in a variety of high risk youth program locations including outpatient counseling, community-based living or institutional settings. This concentration includes the State required certification program to be an "Alcohol and Drug Prevention Generalist." Students are also encouraged to pursue alcohol and drug certification as part of their degree programs due to the strong overlap between high-risk youth behaviors and substance abuse. Many of the required courses to do so are included in the concentration.

REQUIRED COURSES		
Human Services core		
		Seminar in Delinquency Causation, Prevention and Control
-		High Risk and Offender Youth
		Survey of the High Risk Youth Integrated Services and Treatment Network 2

HSP	3590	The Resistive Adolescent Client
HSP	3620	Prevention Generalist Workshop
HSP	4320	Psychopathology and the Mental Health Clinician
PSY	3260	Psychology of Adolescence*
SOC	3400	Childhood and Adolescent Socialization**
SWK	3010	Social Work Services for Children and Adolescents
Total l	nours for	the major with High Risk Youth Studies concentration
Gener	al Studio	es
Electives		
Total for the Degree		

^{*}Required prerequisite: PSY 1001-3 Introductory Psychology (may be applied to General Studies)

Certificate of Completion in High Risk Youth Studies

The 16-hour Certificate of Completion in High Risk Youth Studies meets the need for a comprehensive learning opportunity for those persons who wish to expand their base of knowledge about current practices for the prevention, intervention, and treatment of high risk youth in a wide variety of high risk youth practice settings.

In order to qualify for the Certificate of Completion in High Risk Youth Studies, the student must complete an application verifying clinical or volunteer experience working with youth at risk. Contact the Center for High Risk Youth Studies (CHRYS) in the Human Services Department at 303-556-2951 for more information.

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

REQUIRED COURSES		
HSP 3230	High Risk and Offender Youth	
HSP 3260	Survey of the High Risk Youth Integrated Services and Treatment Network 2	
HSP 3490	Multicultural Issues in Human Services	
HSP 3590	The Resistive Adolescent Client	
MDL 1300	Languages for the Professionals*	
Elective**		
Total hours for certificate		

*If a student has a specific need to learn a language other than Spanish, he or she may substitute another language course for these two hours with the approval of the Director of the Center for High Risk Youth Studies. Students may substitute MDL 1610, American Sign Language I, or other language courses as relevant. If a student already possesses the necessary language proficiencies described (as demonstrated by an oral or demonstration examination with appropriate language-related faculty) he or she may elect to substitute two semester hours of upper division human services course work for this requirement.

**A three semester hour elective in a related subject area to be selected by the student in consultation with an HSP/CHRYS advisor. Note that CJC 3350, Seminar in Delinquency Causation, Prevention and Control, is recommended, but other courses may be included as part of the certificate of completion as relevant to the individual student's needs and career goals and interests.

The Center for Nonprofit Organization Administration

The Center for Nonprofit Organization Administration offers both a concentration for the human services degree and a certificate of completion program.

^{**}Required prerequisite: SOC 1010-3 Introduction to Sociology (may be applied to General Studies)

Nonprofit Organization Administration Concentration

This concentration provides both degree seeking and career advancement professionals with the academic background and management skills to become effective managers in a variety of nonprofit settings.

REQU	JIRED (COURSESSEMESTER HOURS
Нита	ın Servi	ces core
Requi	red Cou	urses for Concentration
HSP	2010	Principles of Nonprofit Organization Administration
HSP	3210	Organizational Stability for Nonprofits
HSP	3510	Development and Administration of Volunteer Programs
HSP	3610	Financial Accountability and Organizational Control for Nonprofit
		Organizations
HSP	3810	Fundraising Strategies for Nonprofit Organizations
HSP	4030	Grant Proposal Research and Writing for Nonprofit Organizations
HSP	4310	Human Resource Development in Nonprofit Organizations
HSP	4710	Critical Issues for Nonprofits
Total	hours fo	r the major with Nonprofit Organization Administration Concentration71
		les
Unres	tricted o	electives
Total	for the L	Degree

Certificate in Nonprofit Organization Administration

The 24 semester-hour Nonprofit Organization Administration certificate program is designed for working professionals and non-degree seeking students who may or may not have a baccalaureate or master's degree or agency training in the administration and management of nonprofit and public organizations. Non-degree students may register for each course sequentially, or select only those classes that meet their professional goals (non-certificate).

EQUIRED COURSES	REQUI
ISP 2010 Principles of Nonprofit Organization Administration	HSP :
ISP 3610 Financial Accountability and Organizational Control in	HSP :
Nonprofit Organizations 3	
HSP 4680 Supervisory Techniques in Nonprofit Health Care Agencies	HSP -
ISP 4710 Critical Issues for Nonprofits	HSP -
Choose one of the following:	Choose
ISP 3810 Fundraising Strategies for Nonprofit Organizations	HSP :
HSP 4030 Grant Proposal Research and Writing for Nonprofit Organizations	HSP -
n addition, students must choose 9 hours of electives from:	In addi
HSP 3210 Organizational Stability for Nonprofits	HSP :
HSP 3510 Development and Administration of Volunteer Programs	HSP :
HSP 4310 Human Resource Development in Nonprofit Organizations	HSP -
Either HSP 3810 or HSP 4030 may be chosen as an elective if not previously completed 3	Either I
otal hours for certificate	Total ho

In order to qualify for the Nonprofit Organization Administration Certificate, an applicant must be accepted as an MSCD student. Each student must also complete a minimum of 150 hours of volunteer experience in a nonprofit agency while enrolled in the certificate program that applies the skills learned in the classroom. If the student can demonstrate that s/he has at least 500 hours work experience in a nonprofit organization, paid or unpaid, this requirement may be waived.

Students must complete each course in the certificate program with a grade of "C" or better. The courses cannot be taken pass/fail.

For more information, contact the Department of Human Services at 303-556-2951.

Paramedic Concentration

The paramedic concentration is designed for students interested in combining their academic experience with paramedic training. Students completing the paramedic concentration may work in a broad array of human service occupations or as paramedics. Students selecting this concentration must have completed or be enrolled in the Paramedic School at the Denver Health Medical Center and obtain a valid and current paramedic certificate from the State of Colorado. Training at the Paramedic School transfers into the department as follows: 8 credits for HSP 2050 and 16 for concentration electives.

REQUIRED COURSES	. SEMESTER HOURS
Human Services Core	47
Note: HSP 2050 Human Services Practicum I will be met by the paramedic cert	tification.
Paramedic certification	16
Total Hours for the major with the Paramedic Concentration	
General Studies	33
Electives	24
Total for the Degree	

Minor in Human Services

The minor consists of a minimum of 24 semester hours, eight of which must be upper division. The student must present a proposal of selected courses from the Human Services curriculum to the department chair for consideration and approval. Please see an advisor for suggested courses for the minor in human services.

PARENT EDUCATION MINOR, SEE PAGES 190 AND 284 OF THIS CATALOG.

INDUSTRIAL DESIGN PROGRAM

Department of Industrial Design

The industrial design major for the bachelor of science is accredited by the National Association of Schools of Art and Design (NASAD). Industrial Designers create new product shapes and styles and redesign existing products, using new technologies, processes and materials. Many people can and do predict future products. In contrast, industrial designers are trained to analyze people's needs and desires and match forms, functions, materials, processes, and technologies to provide better product solutions. Industrial designers do more than predict the future—they prescribe it.

The Industrial Design Program takes seriously the growing demand for new, creative, and effective technological solutions to the problems facing contemporary society. The program's goal is to prepare students to compete and succeed today and in the future.

All students must pass through an assessment portfolio review before passing on to junior-level status. The details of this process are outlined on the ID Program Web site and are available in hard copy from the IND Department office.

Industrial Design Major for Bachelor of Science (no minor required)

ENG1010Freshman Composition: The Essay3ENG1020Freshman Composition: Analysis, Research, and Documentation3MTH1210Introduction to Statistics (General Studies-Mathematics)4PHY1000Introduction to Physics (General Studies-Natural Science)4	ADD1	ITIONAL	TIONAL COURSE REQUIREMENTS* SEMESTER HOURS
ENG1020Freshman Composition: Analysis, Research, and Documentation3MTH1210Introduction to Statistics (General Studies-Mathematics)4PHY1000Introduction to Physics (General Studies-Natural Science)4	CHE	1010	1010 Chemistry and Society (General Studies-Natural Science)
MTH 1210 Introduction to Statistics (General Studies-Mathematics)	ENG	1010	1010 Freshman Composition: The Essay
PHY 1000 Introduction to Physics (General Studies-Natural Science)	ENG	1020	1020 Freshman Composition: Analysis, Research, and Documentation
	MTH	1210	1210 Introduction to Statistics (General Studies-Mathematics)
DCV 1001 Introductory Dayshalogy (Dranquisita for DCV 4410)	PHY	1000	1000 Introduction to Physics (General Studies-Natural Science)
rsi 1001 introductory rsychology (Prerequisite for PS1 4410)	PSY	1001	1001 Introductory Psychology (Prerequisite for PSY 4410)
(General Studies-Social Science)			(General Studies-Social Science)

SPE		3 (- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		f Level II General Studies-Historical**	
		evel II General Studies-Arts and Letters**	
		f Level II General Studies-Social Science**	
			5
		ses listed may be used to satisfy General College Requirements	
**The	multicul	tural graduation requirement can be satisfied by taking a multicultural course in one of thes	ie
areas.			
REOU	IRED C	OURSESSEMESTER HOUR	S
ART	1141	Drawing I	3
ART	1101	Two-Dimensional Design	
ART	1501	Three-Dimensional Design.	
ARTH	I 1700	World Art II: Art since 1200	
ART	3340	Illustration I	
IND	1010	Introduction to Woodworking	
IND	1030	Finishing Materials and Processes	
IND	1130	Introduction to Plastics.	
IND	1200	Introduction to General Metals: Cold Metals	
IND	1220	Introduction to General Metals: Hot Metals.	
IND	1430	Industrial Drawing	
IND	1470	Perspective Drawing	
IND	2450	Beginning Industrial Design	
IND	2830	Manufacturing Organization and Processes	
IND	3410	Computer Aided Drafting for Industry	
IND	3450	Intermediate Industrial Design	
IND	3480	Industrial Design Model Making	
IND	3530	Digital Photography	
IND	3660	Computer Aided Industrial Design	
IND	3800	Industrial Safety and Production	
IND	3950	History of Industrial Product Design	
IND	4450	Advanced Industrial Design I	
IND	4460	Advanced Industrial Design II	
IND	4540	Advanced Design Concept Visualization	
IND	4960	Professional Industrial Internship	4
PSY	4410	Human Factors Engineering	3
Subto	tal		6
Nine l	Hours o	f Electives	9
		consult with an Industrial Design Faculty advisor in the Industrial Design programs before	
		lectives. The following courses are strongly recommended:	
IND	4030	Advanced Wood Processes	4
IND	4090	Advanced Modelmaking Fabrication Techniques	
T . 1		1	

INTEGRATIVE THERAPEUTIC PRACTICES

Department of Health Professions

The interdisciplinary major in Integrative Therapeutic Practices offers students an area of concentration integrating the most recent scientific evidence with the oldest of healing traditions. The major draws from disciplines such as health education services, health care management, biology, philosophy, psychology, nursing, nutrition, human services, human performance, sociology, and business. Students are prepared to examine the diverse factors that impinge on an individual's health and well-being. Students receive a broad-based understanding of the concepts of health, the theories underlying healing health practices, and the scientific research methods needed to evaluate the latest techniques in this dynamic field. The major also provides opportunity for in-depth concentration in specific areas of interest.

The Integrative Therapeutic Practices program is a two-concentration program. The Clinical Concentration will be for incoming students interested in a strong science and health care background in preparation for graduate school or to pursue a postgraduate clinical practice, and for individuals who are already in a clinical practice and need to complete specific requirements for the attainment of a baccalaureate degree. The Administrative Concentration will be for students interested in the management aspects of complementary and alternative health care.

Minors that would complement this major include, but are not limited to, Health Care Management (Clinical Concentration only), Nutrition, Gerontology, Recreation Professions, Journalism, Spanish, Marketing, Human Services, 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" will need to be repeated in order for the student to take any other courses for which the first course is a prerequisite. All general requirements of the College for a bachelor of science degree must be met prior to graduation.

The Integrative Therapeutic Practices program is housed in the Health Professions Department. Students enrolling in the major must confer with a department advisor as soon as possible. For more information call 303-556-3130 or go to South Classroom 226.

EDUCATIONAL GOALS AND OUTCOMES

The baccalaureate integrative therapeutic practices program has established the following outcomes for all graduates. The integrative therapeutic practices graduate will be prepared to:

- 1. Demonstrate an attitude of caring, flexibility, and self confidence in a health care setting.
- 2. Act in an ethical, legal, and socially responsible manner in applying the leadership roles of collaborator, resource person, change agent, teacher, and advocate.
- 3. Integrate a variety of communication skills, media techniques, and strategies effectively and appropriately to influence health.
- 4. Assess health situations and recommend appropriate healing practices.
- 5. Evaluate global health systems to identify social and health care trends to anticipate the future of health care.
- 6. Apply scientific method to healthcare problems.
- 7. Apply knowledge of natural science principles in a healing practice.

General Studies Course Requirements with recommended courses

Mathematics (3 hours required): Communications (3 hours required): SPE 1010 -or-SPE 1710 Composition (6 hours required) ENG 1010 Natural Science (6 hours required): BIO 1080 BIO 1090 CHE 1100

Soci	al Scie	nces (6	hours required):
	ANT ANT HES	3480 1310 1050	Cultural Diversity in Health & Illness*3Introduction to Cultural Anthropology3Dynamics of Health3
Mul	ticultu	ral Cou	urse Requirement with recommended courses (3 hours required)
	HES ANT	3310 3480	Introduction to Traditional Chinese Medicine
	requir **Thi	ed course s course	satisfies the Multicultural Requirement and can also he used for one of the following: a e for this major or an elective course for this major or a course in a minor. satisfies the Multicultural Requirement and can also he used for one of the following: es Level II, Social Sciences or an elective for this major or a course in a minor.
Req	uired p	rerequ	isite courses ⁺⁺
-	MTH BIO BIO CHE	1210 1080 1090 1100	Introduction to Statistics.4General Biology I.3General Biology Laboratory I1Principles of Chemistry.5
	++Thes	se may b	e used to satisfy General Studies requirements.
In	tegra	itive [Therapeutic Practices Major for Bachelor of Science
	_		CORE COURSES SEMESTER HOURS
	HES	2150	Complementary and Alternative Medical Therapies*
	HES HES	2750	Holistic Health
	HES	3600 3310 -or-	Ethical Decision Making in Health Care 3 Introduction to Traditional Chinese Medicine 3
	HES	3350 -or-	Ayurveda Therapy I: Introduction to Basic Principles*
	HES	3410	Botanical Pharmacology*
	HES	4970	Internship in Health and Wellness
	NUT Total		Introduction to Nutrition
		•	r Core
			dditional prerequisites.
Cli			ntration
	-		COURSES SEMESTER HOURS
	BIO	2310	Human Anatomy and Physiology I
	BIO	2320	Human Anatomy and Physiology II
	CHE	2100	Introduction to Organic and Biological Chemistry
	HCM		Health Care Research Methods*
	HES	3750	Clinical Pathophysiology I
			r major
		-	dditional prerequisites.
Lea	der aı	nd Adı	ministrative Concentration
	_		COURSES SEMESTER HOURS
		3010	Health Care Organization
		3020 3500	Management Principles in Health Care. 3 Health Care Research Methods. 3
			per division level electives
			r major

Recom	ımended	General Electives
COUR	SES	SEMESTER HOURS
ANT	3480	Cultural Diversity in Health and Illness
HCM	3010	Health Care Organization ⁺
HES	3050	Therapeutic Touch
HES	3170	Introduction to Homeopathy
HES	3310	Introduction to Traditional Chinese Medicine
HES	3810	Physiology of Aging
HES	3820	Health Care Counseling
NUT	3080	Maternal and Child Nutrition 3
NUT	3100	Nutrition and Aging
NUT		Nutrition and Sports Performance
NUT		Community Nutrition
NUT		Cultural Aspects of Nutrition
NUT		Nutrition and Weight Control
RECR		Introduction to Therapeutic Recreation Services
RECR		Grants and Grant Writing
KLCK	4010	Grants and Grant Witting
Genera	al Electi	ves Requiring Prerequisite Coursework that is not included in the Core or in the
Requir	ed Prere	quisites*
COUR	SES	SEMESTER HOURS
BIO	3330	Advanced Human Cadaver Anatomy 4
BIO	3350	Immunology 4
BIO	3600	General Genetics
HCM	3020	Management Principles in Health Care ⁺
HCM	3030	Health Care Jurisprudence
НСМ	3300	Management Issues and Health Policy
НСМ	4020	Human Resource Management in Health Care
HCM	4030	Financial Management in Health Care
HCM	4040	Health Care Economics
HES	3070	Parental Health Care Issues
HES	3350	Ayurveda Therapy I: Introduction to Basic Principles
HES	3410	Botanical Pharmacology 3
HES	3750	Clinical Pathophysiology I ⁺⁺
HES	4350	Ayurveda II: Prevention and Management of Chronic Disease
HES	4750	Clinical Pathophysiology II
HPS	3300	Anatomical Kinesiology
HPS	3340	Physiology of Exercise
HPS	3830	Upper Body Injury Evaluation
HPS	3850	Lower Body Injury Evaluation
HSP	4520	Grief Counseling
MKT		Marketing of Services
NUT	3600	Eating Disorders I
PHI	3410	Eastern Philosophy
PSY	3170	Multicultural Service Learning
RECR		Health and Movement Problems in the Aging Adult
RECR		Recration Programs for the Older Adult
SOC	3100	Death and Dying
SOC		Health and Healers
300	3800	11carui anu 11careis

^{*}The prerequisite coursework may be used as electives or as part of a minor.

⁺The course counts as an elective for Clinical Concentration only (it is a required course for the Administrative Concentration).

⁺⁺The course counts as an elective for Administrative Concentration only (it is a required course for the Clinical Concentration).

MECHANICAL ENGINEERING TECHNOLOGY PROGRAM

Department of Engineering Technology

The MET program offers the bachelor of science degree, which is accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET). The educational approach is hands-on with more than 60 percent of the courses requiring laboratory work in addition to lectures. Under the revised rules and regulations of the Colorado State Board for Professional Engineers and Professional Land Surveyors, ET students at MSCD may take the Fundamentals of Engineering Examination within 30 semester hours of graduation. During their senior year, all students will take a MET assessment exam. In addition, those students wishing to work towards becoming a Professional Engineer can take the Fundamentals of Engineering (FE) exam during their senior year.

The MET program offers both day and evening classes to meet the needs of its diverse student population. The MET curriculum is continually upgraded to reflect state-of-the art technology while meeting the needs of industry and employers of the mechanical engineering technology graduates. An advisory committee, which includes employers, graduates, and students of the program, meets with faculty and administrators to review curriculum, student and faculty recruitment, program needs, progress, problems and probable solutions, laboratory equipment, facilities, and to assist in the placement of graduates. The committee assures a high level of community awareness and support of the program.

Besides traditional classes, the MET program also offers state-of-the-art computer-aided engineering courses to keep students updated with current engineering technology and computer applications in the industry. These new computer-aided engineering courses will provide students with training in the areas of computer programming, computer-aided design, computer-aided manufacturing, three-dimensional modeling, and computer-aided analysis.

Graduates enter the engineering profession as engineering technologists. After taking the Fundamentals of Engineering (F.E.) examination, some graduates choose to begin the six-year process, at a minimum, to become a registered professional engineer (P.E.). Some attend graduate school to pursue further education. The majority obtain gainful employment in a variety of industries ranging from large aerospace companies to small manufacturing and custom-design businesses. Job titles range from technician and engineering technologist to engineer.

For every MET course, a minimum grade of "C" is required for all prerequisites before a student can progress. If considering graduate school studies in engineering or physical sciences, students are encouraged to elect the recommended mathematics minor. A full-time student may complete the program in four years (eight semesters). Since many of the courses build on each other, it is important that the courses are taken in a proper order.

All students completing the mechanical engineering technology major and minor must participate in assessment during their last semester. This assessment is a series of examinations in mechanical engineering technology courses. See the Mechanical Engineering Technology Coordinator for details.

Mechanical Engineering Technology Major for Bachelor of Science

REQU	IRED TI	ECHNICAL COURSESSE	ΜF	EST	ER	Н	OU	JR
MET	1000	Materials and Manufacturing Technology						. 3
MET	1010	Manufacturing Processes						. 3
MET	1200	Technical Drawing I						. 3
MET	1210	Technical Drawing II						. 3
MET	1310	Principles of Quality Assurance						. 3
MET	2150	Mechanics I - Statics						. 3
MET	2200	Materials of Engineering						. 3
MET	3110	Thermodynamics						. 3
MFT	3130	Mechanics of Materials						1

MET 3135	Mechanics of Materials - Laboratory
MET 3160	Mechanics II - Dynamics
MET 3180	Fluid Mechanics I
MET 3210	Introduction to Computer Aided Engineering-Programming 4
MET 3410	Geometric Dimensioning and Tolerancing
MET 4000	Project Engineering
Subtotal	
ADDITIONAL	TECHNICAL COURSE REQUIREMENTS:
EET 2000	Electric Circuits and Machines
EET 3010	Industrial Electronics
Subtotal	
Additional Co	ourse Requirements:
CHE 1800	General Chemistry I*
COM 2610	Introduction to Technical Writing
ECO 2010	Principles of Economics - Macro*
ENG 1010	Freshman Composition: The Essay*
ENG 1020	Freshman Composition: Analysis, Research and Documentation*
MTH 1400	Precalculus Mathematics (MTH 1110, 1120 may be substituted)
MTH 1410	Calculus I*
MTH 2410	Calculus II*
PHY 2311	General Physics I*
PHY 2331	General Physics II*
PHY 2321	General Physics I Laboratory*
PHY 2341	General Physics II Laboratory*
PHI 1030	Ethics*
SPE 1010	Public Speaking*
XXX XXX	Level II General Studies - Historical*
XXX XXX	Level II General Studies - Arts and Letters*
XXX XXX	Level II General Studies*
Subtotal	
*Some of thes	e courses may be used to satisfy General College Requirements, including the 3 credit
	tural requirement.
nom municum	with topintonia.

Areas of Concentration (Choose one Concentration)

Computer-Aided Manufacturing

COURSES	EMESTER HOURS
MET 3000 Manufacturing Analysis	4
MET 3100 N/C Computer Programming	3
MET 3250 Tool Design and Production Tooling	3
MET 3300 Statistical Process Control	3
MET 3330 Robotics for Manufacturing	3
MET 3XXX Upper Division Elective	3
MET 4010 Advanced Manufacturing Technology**	3
MET 4080 Computer Aided Manufacturing	3
Subtotal	25
Total for Compuer-Aided Manufacturing	129
**Senior Experience course.	

Mechanical

COURSES	
MET 3070	Machine Design
MET 3120	Heat Transfer

MET	3140	Heat Transfer Laboratory		
MET	3190	Fluid Mechanics II		
MET	3320	Instrumentation Laboratory		
MET	3XXX	Upper Division Elective		
MET	3XXX	Upper Division Elective		
MET	4070	Computer Aided Design**		
MET	4280	Advanced Energy Technology		
Subtot	al			
Total for Mechanical				
**Senior Experience course.				

Recommended Mathematics Minor for MET Students

The Mechanical Engineering Technology Program recommends that students pursue a minor in Mathematics. The following is the combination of math classes for MET students to obtain a minor in Mathematics.

REQUIRED CO	OURSESSEMESTER HOURS
MTH 1410	Calculus I
MTH 2410	Calculus II
MTH 2420	Calculus III
MTH 3420	Differential Equations
MTH 3130	Advanced Matrix Methods for Physical Sciences
MTH 3210	Probability and Statistics
Subtotal	24

Note: Some of the classes are required for the MET major.

Mechanical Engineering Technology Minor

REQUIRED COURSES			
MET 1000	Materials and Manufacturing Technology		
MET 1010	Manufacturing Processes		
MET 1310	Principles of Quality Assurance		
MET 2200	Materials of Engineering		
Upper-division	on MET Electives		
Total			

NURSING DEPARTMENT

The mission of the Nursing Department is to:

- provide non-nursing baccalaureate degree graduates and associate degree, and diploma nurses with a high quality, accessible, enriched education
- teach the knowledge, skills and performance competencies to provide safe nursing care and to improve nursing practice in a diverse global and technological community
- encourage students to think critically, be receptive to change, and anticipate future health care needs of society

This mission is accomplished in part through health care partnerships in the community.

The Nursing Department offers two baccalaureate degree programs with a major in nursing, the Accelerated Nursing Program (ACNP) and the Baccalaureate Registered Nurse Completion Program (BRNCP).

The Accelerated Nursing Program and the Baccalaureate Registered Nurse Completion Program are accredited by the National League for Nursing Accrediting Commission, 61 Broadway–33rd Floor, New

York, New York 10006 (212-363-5555 ext. 153). For more information, call the Department of Nursing at 303-556-4691 or go to Administration Building, Suite 220.

Visit our Web site at http://www.mscd.edu/~nursing/.

ACCELERATED NURSING PROGRAM (ACNP)

The ACNP is a second degree program for students with a previous non-nursing baccalaureate degree. The program is offered in 6-week modules over a 13-month period.

The purposes of the ACNP are to:

- provide nursing students who have a prior non-nursing baccalaureate degree with a broad educational base to provide safe nursing care and advance the health of diverse communities through nursing
- prepare competent clinicians to meet the future health care needs of society
- influence the areas in which registered nurses practice
- promote open-mindedness and receptivity to change, growth and diversity
- encourage critical thinking, evidence-based practice, examination of controversy, research, intuitive knowledge, and other ways of knowing
- provide preparation for taking the national licensing examination (NCLEX)
- provide preparation for graduate education in nursing
- stimulate continuous personal and professional growth and development.

Students who wish to enter the ACNP must apply to the College and to the program. Information on applications is available through the Department of Nursing, in the Administration Building, Suite 220, or on line at: http://:www.mscd.edu/~abs-nur/.

Educational Outcomes

The Accelerated Nursing Program graduate will:

- value the essential worth and dignity of diverse individuals, families, groups, and communities
- demonstrate integrity and an attitude of caring, flexibility, and self confidence
- act in an ethical, legal, safe, and socially responsible manner
- demonstrate cultural sensitivity in the provision of care to individuals, families, groups, and communities
- perform the professional role of the nurse applying the nursing process in a variety of healthrelated situations across the life span
- perform the professional role of the nurse as defined by the nurse practice act and national standards of practice
- apply the leadership roles of delegation, teacher, collaborator, resource person, advocate, change agent, and care manager/coordinator
- use research, evidence-based practice, and theories in developing creative solutions for the practice of nursing
- demonstrate sound judgment and discretion in applying nursing and management principles within a variety of healthcare environments with culturally diverse individuals, groups, and communities
- use technology effectively for the betterment of the client
- use a variety of communication skills, technologies, and strategies effectively and appropriately to influence the health of clients
- demonstrate effective documentation of care
- demonstrate the ability to work collaboratively using communication skills of compromise, negotiation, and conflict resolution
- become politically and professionally active, as a nurse
- work collaboratively to enhance the power base of nursing
- recognize the incomplete and evolving nature of human knowledge and understand the need for lifelong learning

- think globally to identify social and health care trends to anticipate and build the future of nursing
- use critical thinking skills, inductive and deductive reasoning to identify underlying assumptions, to draw inferences, to evaluate arguments and to analyze information to examine, address, and resolve problems.

Admission Progression and Process Requirements

ADMISSION

- non-nursing baccalaureate degree from an accredited institution of higher learning
- acceptance at MSCD through the Office of Admissions
- MSCD transcript evaluation
- completion of MSCD approved prerequisite courses:
 - Anatomy & Physiology I (with lab)
 - Anatomy & Physiology II (with lab)
 - Microbiology (with lab)
 - Introduction to Statistics
 - Human Growth and Development
 - Human Nutrition
 - Multicultural course
 - minimum undergraduate GPA>3.0
- strong science grades; recent courses
- drug screening and criminal background check whose results meet or exceed standards established by the Alliance for Clinical Education (ACE) and clinical agency education partners

PROGRESSION

- current immunizations for health care providers according to CDC and Colorado Department of Health standards
- current negative TB screen maintained annually or as required by clinical agency education partners
- current two-year BLS for health care providers
- nursing student malpractice insurance policy with minimum \$1 million per occurrence and \$3 million aggregate
- completion of the Watson-Glaser Critical Thinking Appraisal
- comprehensive health insurance throughout the program
- signed statement on file acknowledging receipt and understanding of student handbook
- evidence of willingness to abide by all policies and procedures of MSCD and the Department of Nursing
- signed statement on file acknowledging understanding that employment during the program is strongly discouraged, that academic and clinical requirements must take priority, and that employment cannot interfere with any portion of the program
- demonstrated ability to meet rigerous physical, mental, and emotional requirements for professional nursing practice throughout the program.
- students must earn a grade of "C" or better in all Department of Nursing courses in order to progress through the program. A course grade of less than "C" will result in removal from the program.

PROCESS

- written application (available on-line)
- two-page essay summarizing personal and professional goals related to accelerated nursing education and the nursing profession
- evidence of all MSCD and Department of Nursing admission requirements on file
- three employment, professional, or academic recommendations on the Department of Nursing form
- interview may be required.

BACCALAUREATE REGISTERED NURSE COMPLETION PROGRAM (BRNCP)

The BRNCP is available to RNs with an associate's degree or diploma in nursing. The program is offered in class, online and in hybrid class formats.

The purposes of the upper-division Baccalaureate Registered Nurse Completion Program are to:

- advance the health of diverse communities through professional nursing practice
- influence health care in the areas in which registered nurses practice
- promote open-mindedness and receptivity to change, growth and diversity
- encourage critical thinking, evidence-based practice and examination of controversy, research, intuitive knowledge, and other ways of knowing
- provide preparation for graduate education
- stimulate continuous personal and professional growth and development

Students who wish to enter the BRNCP must be accepted at MSCD through the Office of Admissions and must complete academic advising with an Academic Advisor or nursing Faculty member prior to class registration. Students are responsible for remaining informed of program changes and student status within the program. Current program materials are available in the Department of Nursing in the Administration Building, Suite 220.

Nursing students must earn a grade of "C" or better in till Department of "Nursing courses in order to progress throughout the program. Courses with grades of less than "C" 'must be repeated prior to taking additional courses for which the first course is prerequisite.

Mission

The mission of the Department of Nursing at Metropolitan State College of Denver is to provide a high-quality, accessible, enriching education leading to a baccalaureate degree in nursing. This learning community cultivates graduates who are prepared with the knowledge, skills and competencies to advance professional nursing practice in a diverse, global and technological society. Students are prepared to think critically, initiate and implement change, and to address the health care needs of society. Graduates are prepared to engage in advanced education in nursing and to foster professional growth, The Department of Nursing is committed to academic excellence, collaborative community involvement, and promotion of faculty scholarly achievement.

Baccalaureate Registered Nurse Completion Program

Educational Outcomes

The graduate will:

- Value the essential worth and dignity of diverse, individuals, families, groups and communities within their environment.
- $\bullet \ \ Demonstrate \ integrity, \ caring, \ flexibility, \ and \ self-confidence.$
- Practice in an ethical, legal, safe and socially responsible manner in the roles of provider of care, manager of care, member of the profession, teacher, and advocate.
- Use evidence-based practice to create solutions within the evolving profession of nursing.
- Apply principles of leadership and management in she diverse, multidisciplinary health care environment.
- Use a variety of communication skills, technologies and strategies appropriately to influence health.
- Communicate effectively with the health care team.
- Be professionally and politically active.
- Work collaboratively to advance the profession of nursing,
- Demonstrate critical thinking through the use of the nursing process.
- Identify global social and health care trends to influence the future of nursing.
- Use legitimate sources of evidence as a basis for current nursing practice.

Admission and Progression Requirements

To qualify for admission to the BRNCP the applicant must:

- be a graduate of an approved associate's degree or diploma nursing program
- be accepted to MSCD through the Office of Admissions
- be currently licensed or eligible to be licensed as a registered nurse (RN) in Colorado
- maintain current Basic Cardiac Life Support (BLS) for health care providers
- provide documentation or current immunizations according to CDC and Colorado Department of Health standards for health care providers
- provide documentation of negative TB screening maintained annually or as required by clinical agency education partners
- carry individual/professional nurses' malpractice liability insurance with a minimum \$1 million per occurrence and \$3 million aggregate
- complete the Watson-Glaser Critical Thinking Appraisal
- be advised by Department of Nursing faculty member or Academic Advisor
- provide copy of all college/university transcripts for file in the Department of Nursing
- provide copy of MSCD transcript evaluation to the Department of Nursing
- demonstrate basic computer skills in word processing, spreadsheets, and use of the internet
- complete 30 semester hours of college-level course work, exclusive of previous nursing courses, that includes ENG 1010, ENG 1020, a psychology course, a sociology course, and 6 semester hours of natural science courses. Support courses may be counted in the above 30 hours. Students lacking selected credits in General Studies are encouraged to take the College Level Examination Program (CLEP)
- demonstrate the ability to meet the rigorous physical, mental and emotional requirements to practice as a professional nurse throughout the program
- undergo a drug screening and criminal background check whose results meet or exceed standards established by the Alliance for Clinical Education (ACE) and clinical agency education partners
- have recent clinical experience (1,000 hours in the past three years or an approved refresher course
 in the past three years). If the applicant has graduated within three years of entering the BRNCP,
 additional clinical experience is not required
- qualify for the Colorado Statewide Nursing Articulation Model/Agreement by meeting one of the following;
 - graduate from a state approved nursing school in the United States;
 - graduate from a non-U.S. nursing program recognized in that country as post secondary education as determined through the MSCD transfer office; or
 - graduate from a non-US, nursing program not recognized in that country as post secondary
 education as determined through the MSCD transfer office but possesses a registered nurse
 license to practice nursing in the United States.
- a earn a grade of "C" or better in all Department of Nursing courses. Courses with grades of less than "C" must be repeated prior to taking additional courses for which the first course is prerequisite.

Thirty (30) semester hours of lower division nursing credit will be awarded for prior nursing education for qualifying students.

The BRNCP offers a one-day/evening-per-week classroom (currently on Tuesdays), online and hybrid class formats to accommodate working professionals. Because of the rigorous demands of this program, sludents are urged to carefully consider home and work obligations when establishing their academic workload. All students must receive academic advising in the Department prior to initial enrollment in any Department of Nursing course. Students are encouraged to meet with an academic advisor prior to registration each semester and on an as-needed basis that shall not be less than once each year.

Requirements for Graduation

- Minimum of 120 credit hours
- All College requirements for General Studies, Multicultural, and Senior Experience
- All required support courses

- All required nursing courses plus one three hour approved elective course
- No minor is required

Nursing Major for BRNCP Bachelor of Science

It is recommended that at least 30 credits, exclusive of previous nursing courses, be completed before beginning the nursing major. At least 40 credits of upper-division courses are required for graduation. Since the specified courses below only include 36 upper-division credits, at least 4 credits of the unspecified courses must be upper-division. The Senior Experience Course for this major is NUR 4850.

REQUIRED COURSES				
NUR 3100	Transitions in Nursing			
NUR 3400	Nursing Research			
NUR 3650	Ethical Decision Making in Professional Nursing Practice			
NUR 3700	Health Assessment			
NUR 3750	Clinical Pathophysiology in Nursing			
NUR 3800	Advances in Clinical Practice			
NUR 4000	Community Health Nursing			
NUR 4300	Leadership and Management for Professional Nursing Practice 4			
NUR 4850	Nursing Senior Experience			
Credit granted	l after completion of NUR 3800 through the Colorado Statewide Nursing			
	Articulation Model/Agreement			
Elective credit	(3 hours required) ¹			
HES 2150	Complementary and Alternative Medical Therapies			
HES 2180	AIDS: Acquired Immune Deficiency Syndrome			
HES 3810	Physiology of Aging for Non-Biology Majors			
HCM XXXX	any 3 credit course			
Subtotal				
D 1 C	. 0			
Required Sup	port Courses			
ANT 3480	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX	Cultural Diversity in Health and Illness 1,2			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Cc ENG 1010 ENG 1020	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX XXX XXXX	Cultural Diversity in Health and Illness 1,2			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX XXX XXXX XXX XXXX	Cultural Diversity in Health and Illness ^{1,2}			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX XXX XXXX XXX XXXX XXX XXXX	Cultural Diversity in Health and Illness 1,2			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX XXX XXXX XXX XXXX XXX XXXX XXX XXXX XXX XXXX	Cultural Diversity in Health and Illness 1,2 3 or another approved statistics course 3. 3 - 4 4. 3 4. 3 5. 3 4. 3 6. 12-13 Drurse Requirements Freshman Composition: The Essay 5 Freshman Composition: Analysis. Research, and Documentation 5 Level I General Studies - Communication 5 Level I General Studies - Mathematics 5,6 Jevel II General Studies - History 5 Level II General Studies - Arts and Letters 5 Level II General Studies - Arts and Letters 5 Level II General Studies - Social Sciences 5,6 Jacebra General Studies - Arts and Letters 5 Level II General Studies - Ar			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Cc ENG 1010 ENG 1020 XXX XXXX	Cultural Diversity in Health and Illness 1,2			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX XXXX XXXX XXX XXXX XXX XXXX	Cultural Diversity in Health and Illness 1,2			
ANT 3480 MTH 1210 PSY XXXX SOC XXXX Subtotal Additional Co ENG 1010 ENG 1020 XXX XXXX Subtotal Unrestricted	Cultural Diversity in Health and Illness 1,2			

- ¹ Courses have prerequisites which must be satisfied.
- ² ANT 3480 satisfies the Multicultural Graduation Requirement and is a Level II General Studies - Social Sciences course.
- ³ MTH 1210 satisfies the Level I General Studies Mathematics requirement.
- ⁴ Certain Psychology and Sociology courses may count towards the Level II General Studies Social Sciences requirement.
- ⁵ These courses, along with ANT 3480, count as General Studies courses.
- ⁶ These requirements may be satisfied by courses selected in the Required Support Courses category.

NUTRITION

Department of Health Professions Eating Disorders Minor

The eating disorders minor is designed to complement a major chosen by a student and/or for individuals who wish to establish self-improvement programs by gaining a basic understanding of eating disorders diagnosis and treatment. A minimum of 22 semester hours is required to complete the minor. A letter grade of at least a "C" must be attained in each of the courses in the eating disorders minor.

The eating disorders minor will provide additional education to the student interested in gaining an entry level position in health care. An advanced degree, additional training, supervision, clinical experience, and examination are required to qualify for certification as a specialist in eating disorders treatment through the International Association of Eating Disorders Professionals.

Student Academic Plan must be approved by advisor.

REQU	IRED C	ORE COURSES (16 CREDITS)
NUT	2040	Introduction to Nutrition
NUT	3400	Nutrition and Weight Control
NUT	3600	Eating Disorders I
NUT	4600	Eating Disorders II
HSP	4490	Contemporary Issues in Human Services: Modalities of Eating Disorders 4
Core T	otal	
Electiv	e Course	es (at least 6 credits)
Behav	ioral Co	emponent.
Comp	lete a m	inimum of 3 semester credit hours from the courses below:
HSP	3560	Motivational Interviewing
HSP	3580	Therapeutic Resistance
HSP	3590	The Resistive Adolescent Client
HSP	4040	Cognitive Behavior Therapy
HSP	3490	Multi-cultural Issues in Human Services
HSP	4280	Gender Issues in Treatment and Recovery
HSP	4250	Counseling the Gay or Lesbian Client
PSY	2850	Psychology of Sexuality
WMS	3510	Feminist Theory
SOC	3220	Race, Gender and Ethnic Groups (WMS 3220)
PSY	3250	Child Psychology
PSY	3260	Psychology of Adolescence
HSP	4320	Psychopathology and the Mental Health Clinician
PSY	3620	Abnormal Psychology
PSY	3440	Cravings and Addictions
Behav	ioral Co	urses Total
Skills	Compoi	nent.
Comp	lete a m	inimum of 3 semester credit hours from the courses below:
HSP	1040	Applied Behavioral Analysis*
HES	3600	Ethical Decision Making in Health Care
HCM	3030	Health Care Jurisprudence
HSP	3330	Ethical and Legal Issues in the Helping Professions*
HSP	2030	Theory and Practice of Counseling*
HSP	2020	Small Group Dynamics Theory and Experience
HSP	2040	Family Systems4
Skills (Compon	ent Total
*Reco	mmende	ed for non-HSP majors
		may have prerequisites (e.g., PSY 1001, and may be taken as part of your General
Studie	*	
Total (Credits fo	or Minor:

Nutrition Minor

The minor in nutrition is designed to complement a major chosen by a student and/or for individuals who wish to establish self-improvement programs by gaining a basic understanding of nutritional studies. A minimum of 18 semester hours is required to complete the minor. A letter grade of at least "C" must be attained in each of the courses in the nutrition minor.

This nutrition minor will not meet educational requirements for qualification as a Registered Dietitian (R.D.). A major in nutrition from an accredited institution, an approved internship, and passing a national exam are all requirements to obtain the R.D. credential.

2040	Introduction to Nutrition	3
e course	*	3
e Cours		
3080	Maternal and Child Nutrition	3
3100	Nutrition and Aging	3
3200	Nutrition and Sports Performance	3
3210	Community Nutrition	3
3300	Cultural Aspects of Nutrition	3
3400		
3600	Eating Disorders I	3
4600	Eating Disorders I	3
3820	Health Care Counseling	3
3640	Healthy Cooking Techniques	3
or minor	٠ا	18
	2040 e course re Cours 3080 3100 3200 3210 3300 3400 3600 4600 3820 3640	3100 Nutrition and Aging 3200 Nutrition and Sports Performance. 3210 Community Nutrition 3300 Cultural Aspects of Nutrition. 3400 Nutrition and Weight Management 3600 Eating Disorders I. 4600 Eating Disorders I. 3820 Health Care Counseling.

PARENT EDUCATION

Departments of Human Services and Psychology

Parent Education Minor

The parent education minor is for students entering professions involved with children and families. It provides the necessary knowledge and skills for working with parents. Also, the program addresses a need identified in the community for people with specific preparation for the role of parent educator. Many agencies offer or are interested in offering parent education programs, yet no specific preparation for that role has been available. This minor is designed to provide students with education for that role and to give students a set of skills that are increasingly in demand.

The minor is seen as particularly appropriate for students entering family- and child-related fields, including education, health care management, human services, criminal justice (especially juvenile justice), nursing and nurse practitioner programs, psychology, sociology, social welfare, speech, and women's studies. People entering these fields may be in a position to develop and conduct parent education programs; a minor in parent education should serve them well in the employment market. Parent education happens in settings ranging from churches to industry and is not limited to educational settings in the usual sense.

The parent education minor encompasses three areas of preparation. One set of classes is intended to give students basic information necessary for effective parenting (child development, parenting techniques, family management and health care). The second facet of the program gives students the skills necessary for developing and conducting parent education programs such as group techniques and program development. The third component of the program entails actual field experience working in

^{*} A course in chemistry, biochemistry, or biology is required. The course should be selected in consultation with an advisor in the Department of Health Professions (303-556-3130).

parent education programs. This experience is incorporated into a number of classes and is the central component of the final course in the minor. A field placement is required in the last semester. Placement opportunities include parent education in hospitals, social service agencies, public and private schools, and business and industry. Students work closely with a parent education program advisor to ensure an appropriate field placement. For more information consult an advisor in the Human Services or Psychology Departments.

REQU	TRED CO	OURSESSEMESTER HOURS
EDU	4070	Designing and Implementing Programs for Adult Learners
HES	3070	Parental Health Care Issues
HSP	2040	Family Systems
PAR	2050	Introduction to Parent Education
PAR	3070	Working with the Contemporary Family
PAR	4890	Parent Education Field Placement
PSY	1800	Developmental Educational Psychology
	-or-	
PSY	2210	Psychology of Human Development
	-or-	
PSY	3250	Child Psychology
PSY	2240	Parenting Techniques
Total.		

RECREATION PROFESSIONS

Department of Health Professions

Students may select a major in Recreation Professions, with a concentration in either Recreation Management or Therapeutic Recreation Services. 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 American Association for Physical Activity and Recreation.

The Recreation Professions major prepares students with the knowledge and skills for employment in municipal, military, commercial/private, clinical, outdoor, campus, park, and not-for-profit settings. Job titles vary but include recreation director, aquatics specialist, recreation therapist, sports coordinator, facility manager, camp director, resort manager, park ranger, and armed forces recreation administrator, to name a few.

In conjunction with the core course requirements, the student selects either the Recreation Management concentration or the Therapeutic Recreation Services concentration. The concentration provides the student with specialized knowledge and skills and further prepares them for certification in the field. 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 (www.nctrc.org) and upon passing the test, become Certified Therapeutic Recreation Specialists. Upon graduation, our Recreation Management students are eligible to sit for their exam to become Certified Park and Recreation Professionals.

Recreation Professions Major for Bachelor of Arts

"C" or better required in all RECR prefixed courses			
CORE COURSESSEMESTER HOURS			
RECR 1870	Introduction to Recreation and Park Services		
RECR 2110	Recreation Leadership Skills and Techniques		
RECR 3330	Introduction to Therapeutic Recreation Services		
RECR 3840	Design and Maintenance of Recreation and Park Resources 4		
RECR 3870	Internship Seminar for Recreation and Park Professions		
RECR 3970	Practicum in Recreation, Parks or Therapeutic Recreation		
RECR 4110	Program Development in Recreation Services		

RECR 2330 RECR 4550

RECR 4630

RECR 4800

RECR 4810 SPA 1110

RECR 4130 Administration of Recreation and Park Services
Note: 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. 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 minimum 120 credit hours to graduate from the college.REQUIRED COURSES.SEMESTER HOURSBIO 3230Principles of Human Anatomy and Physiology for Secondary Education.5RECR 3430Program Development in Therapeutic Recreation.3RECR 3530Techniques in Therapeutic Recreation.4RECR 4030Issues and Trends in Therapeutic Recreation.3RECR 4150Advanced Techniques in Therapeutic Recreation.4PSY 3620Abnormal Psychology.3
Select a minimum of 2 credit hours (one class) from the HSL courses:HSL 1030Skills and Methods of Teaching Physical Activities for Special Populations 2HSL 1420Activity and Fitness Programs for the Elderly
Select a minimum of 6 credit hours, in consultation with your academic advisor, of courses with prefixes of HCM, HES, HSP, PSY, SOC.* Subtotal
Total required for the Recreation Services Major, Concentration in Therapeutic Recreation Services
Recreation Management
Extended major, no minor required. Students must have a minimum 120 credit hours to graduate from the college. REQUIRED COURSES. SEMESTERHOURS RECR 4850 Advanced Administration of Recreation and Parks 3 MGT 3000 Organizational Management 3 MGT 3530 Human Resources Management 3 MKT 3000 Principles of Marketing 3
Select a minimum of 9 credit hours from the following:
RECR 393A-Z Contemporary Issues in Recreation and Parks: Variable Topics

Workshop in Recreation and Park Services.....1-3

Total required for the Recreation Services Major, Concentration in Recreation Management 61

Recreation Services Minor

The Recreation Services minor assists interested students in getting basic information for part-time or seasonal employment in the recreation and parks fields.

REQUIRED C	OURSESSEMESTER HOURS
RECR 1870	Introduction to Recreation and Park Services
RECR 2110	Recreation Leadership Skills and Techniques
RECR 3330	Introduction to Therapeutic Recreation
RECR 3840	Design and Maintenance of Recreation and Park Resources 4
RECR 3970	Practicum in Recreation, Parks, or Therapeutic Recreation
Select a minim	num of 3 credit hours from the following:
RECR 393A-Z	Contemporary Issues in Recreation and Parks: Variable Topics
RECR 2210	Managing Outdoor Recreation Programs
RECR 2330	Advocacy, Leisure, and the Aging Adult
RECR 4550	Management of Aquatic Resources
RECR 4630	Recreation Programs for the Older Adult
RECR 4800	Workshop in Recreation and Park Services1-3
RECR 4810	Grants and Grant Writing
Total required t	for the Recreation Services Minor.

SPECIAL EDUCATION

Department of Teacher Education - please see page 301.

SURVEYING AND MAPPING PROGRAM

Department of Industrial Design

The Bachelor of Science degree in surveying and mapping is the only one of its kind in Colorado and the region. It prepares graduates for registration as professional land surveyors and for careers in other areas of surveying and mapping or for graduate study. Graduates are in professional-level positions with the Bureau of Land Management and other federal, state, and local government agencies, utilities, and private companies. Several have become officers of their societies (Professional Land Surveyors of Colorado and the Colorado Section of the American Congress on Surveying and Mapping). A relatively new employment area for graduates is in land information systems (storing information on land parcels, public utilities, natural resources, etc., in computer systems for recordkeeping and planning purposes).

The Head of the Program, or designee, must approve all technical electives.

All students who are considering the major or minor in surveying and mapping are expected to consult with faculty for advising.

The minor in mathematics is required for all students in the program, but is optional for students who already have a baccalaureate degree and are seeking a second degree in surveying.

All majors in surveying and mapping are required to complete with a minimum grade of "C" all courses prefixed with SUR, CET, MTH, CS and/or CSS, and PHY.

All students completing the surveying and mapping major and minor must participate in assessment during their last semester. This assessment is a series of examinations in the surveying and mapping courses. See the coordinator of the Surveying and Mapping Program for details.

Surveying and Mapping Major for Bachelor of Science

	REQU	TRED T	ECHNICAL STUDIES	. SEMESTER HOURS
	CET	1200	Technical Drawing I	
	GEL	1010	General Geology	4
	GIS	4840	Remote Sensing	
	SUR	1510	Surveying I	4
	SUR	2520	Surveying II	4
	SUR	2530	Route Surveying	4
	SUR	2550	Surveying Computations	
	SUR	2620	Survey Drafting-CAD	
	SUR	3100	Survey Data Adjustment and Analysis I	
	SUR	3150	Astronomy for Surveyors	2
	SUR	3300	Photogrammetry	
	SUR	3540	Boundary Law I	
	SUR	3700	Geodesy I	
	SUR	4320	Geodetic Survey Methods	
	SUR	4510	Map Projections and Coordinate Systems	
	Subtot	al	• • • • • • • • • • • • • • • • • • • •	
Add	itional	Course	Requirements	
	COM	2610	Introduction to Technical Writing	3
	ENG	1010	Freshman Composition: The Essay	
	ENG	1020	Freshman Composition: Analysis, Research, and Documenta	
	MTH	1400	Precalculus Mathematics	
	MGT	3000	Organizational Management	
	PHY	2311	General Physics I	
	PHY	2321	General Physics I Laboratory	
	PHY	2331	General Physics II	4
	PHY	2341	General Physics II Laboratory	
	SPE	1010	Public Speaking	3
			f General Studies-Historical*	
	Six ho	urs of G	eneral Studies-Arts and Letters*	6
			eneral Studies-Social Science*	
	Subtot	al		44
	*Select	ing any	General Studies Level II course approved for multicultural credi	it will satisfy the multi-
			ement of three credits.	
			nnical Électives**	14
Req	uired N	Iath Mi	nor	
	MTH	1410	Calculus I	4
	MTH	2410	Calculus II	4
	MTH	2420	Calculus III	
	MTH	3130	Advanced Matrix Methods for the Physical Sciences	
	MTH		Probability and Statistics	4
Con	nputer	Science	Programming Elective (One of the following):	
	CSI	1050	Computer Science 1	
	CSS	1247	Introduction to Programming: Visual Basic	
	MTH		Computer Programming: FORTRAN	
	XXT1	. •		

**Electives must be approved by the program advisor or designee.

General Studies Requirements

The Level I mathematics requirement is met by the mathematics minor.

Minor in Surveying

REQUIRED TECHNICAL STUDIES		
SUR	1510	Surveying I*
SUR	2520	Surveying II*
SUR	2620	Survey Drafting-CAD**
SUR	2550	Surveying Computations
SUR	3300	Photogrammetry**
SUR	4510	Map Projections and Coordinate Systems**
Technical Elective		
Total		

^{*}All prerequisites for this course must be satisfied.

Certificate Programs Available

Five certificate programs are available in various disciplines of surveying and mapping. There are several basic requirements for each certificate program.

- All students who are considering any of the certificates in surveying and mapping must consult with faculty for advising.
- Students must demonstrate completion of college courses in Calculus I & II (MTH 1410 and MTH 2410, or equivalent), Probability and Statistics (MTH 3210, or equivalent), and Physics (2311, 2321, 2331, and 2341, or equivalent) when these courses are listed as prerequisites for a SUR course. Cited courses refer to approved courses offered by the Metropolitan State College of Denver. These listed courses are the normal prerequisites for students enrolled in the Surveying and Mapping Program.
- All courses must be completed with a grade of "C" or better.
- All courses can subsequently be applied to the major in Surveying and Mapping if the student enrolls in the Surveying and Mapping Program.
- Credits earned to complete prerequisite courses not listed below do not apply to the minimum credits required for the certificate.
- Transfer credit from other academic institutions for courses listed in the certificate programs is not permitted.

Precise Surveying Certificate

Precise surveying is that area of surveying and mapping when highly accurate measurements are made to determine positions and elevations on or near the earth's surface for specialized requirements not encountered in surveying and mapping operations to support normal engineering and architectural projects.

1. The following courses comprise the program:

ne rone wing courses comprise the program.			
COURSES			
SUR 255	0 Surveying Computations		
SUR 310	0 Survey Data Adjustment and Analysis I		
SUR 315	0 Astronomy for Surveyors		
SUR 330	0 Photogrammetry		
SUR 370	0 Geodesy I		
SUR 432	0 Geodetic Survey Methods		
SUR 451	0 Map Projections and Coordinate Systems		
Total			

2. A minimum of seventeen (17) credits must be completed. Prerequisites for the courses listed above may include, depending on the specific courses chosen, one or more of the following: SUR 2520 - *Surveying II* and SUR 2530 - *Route Surveying*, in addition to college courses in calculus, probability and statistics, and physics. See advisor for details.

^{**}The prerequisite SUR 3700 is waived.

Engineering/Construction Surveying Certificate

Engineering/construction surveying is that area of surveying and mapping which addresses the specialized surveying and mapping functions required by engineers and architects for design, construction, and post construction/monitoring of buildings, transportation systems, water and sewer systems, airports, railroads, etc.

1. The following courses comprise the program:

COURSES			
SUR 2520	Surveying II		
SUR 2530	Route Surveying		
SUR 2550	Surveying Computations		
SUR 3300	Photogrammetry		
SUR 3400	Professional Ethics and Critical Thinking		
SUR 4320	Geodetic Survey Methods		
SUR 4500	Construction Methods		
SUR 4530	Site Planning		
Total	Total		

2. The student must elect a minimum of two (2) of the following courses: SUR 4320; SUR 4500; and SUR 4530. Prerequisites for the courses listed above may include, depending on the specific courses chosen, one or more of the following: SUR 1510 - Surveying I, SUR 3700 - Geodesy I, SUR 2550 - Surveying Computations, and SUR 2620 - Survey Drafting - CAD, in addition to college courses in calculus, probability and statistics, and physics. See advisor for details.

Land Surveying Certificate

Land surveying is the branch of surveying which deals with the general aspect of the surveying, establishing/reestablishing, and describing the boundaries of real property, condominiums, and easements, and rights-of-way. The practicing land surveyor must be registered or licensed in accordance with state statutes.

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1. The following courses comprise the program:

COURSES	SEMESTER HOURS
SUR 2550	Surveying Computations
SUR 3220	Real Property Descriptions
SUR 3400	Professional Ethics and Critical Thinking
SUR 3540	Boundary Law I
SUR 3800	Public Land Survey System
SUR 4530	Site Planning
SUR 4540	Boundary Law II
Total	

2. All courses are required. Prerequisites for the courses listed above may include one or more of the following: SUR 2520 - *Surveying II*, SUR 2530 - *Route Surveying*, and SUR 2620 - *Survey Drafting - CAD*, in addition to college courses in calculus, probability and statistics, and physics. See advisor for details.

Cadastral Surveying Certificate

Cadastral surveying is that branch of surveying which specifically applies to the original and retracement surveys of the Public Domain. The practicing surveyor is usually a registered or licensed land surveyor in accordance with state statutes.

1. The following courses comprise the program:

COURSES		
SUR	2550	Surveying Computations
SUR	3200	Government Records and Regulations

SUR	3210	Case Studies and Legal Research	. 2
SUR	3400	Professional Ethics and Critical Thinking [required course]	. 2
SUR	3540	Boundary Law I	. 3
SUR	3800	Public Land Survey System	. 3
SUR	4110	Advanced Cadastral Surveying	. 3
SUR	4540	Boundary Law II	. 3
Total			20

2. A minimum of seven (7) courses (20 credits) must be completed. Prerequisites for the courses listed above may include, depending on the specific courses chosen, one or more of the following: SUR 2520 - Surveying II and SUR 3210 - Case Studies and Legal Research, in addition to college courses in calculus, probability and statistics, and physics. See advisor for details.

Surveying Management Certificate

Surveying management is the area of surveying addressing the dual role of professional surveyor and proprietor, lead professional, or supervisory manager of a consulting surveying organization or municipal/regional government agency. The intent of these studies is to provide the professional surveyor with the knowledge useful in supervising employees and managing projects and programs.

1. The following courses comprise the program:

COURSES		
ACC 2010	Principles of Accounting I	
ACC 3090	Income Tax	
ACC 3400	Cost Accounting	
FIN 3800	Real Estate Practice and Law	
MGT 2210	Legal Environment of Business	
MGT 3530	Human Resources Management [required course]	
MGT 4550	Project Management [required course]	
SUR 3400	Professional Ethics and Critical Reasoning [required course]	
SUR 3540	Boundary Law I [required course]	
SUR 4530	Site Planning [required course]	
Total		

2. A minimum of twenty (20) credits [excluding prerequisites] must be completed. Prerequisites for the courses listed above may include, depending on the specific courses chosen, one or more of the following: SUR 2520 - Surveying II, SUR 2530 - Route Surveying, SUR 2620 - Survey Drafting - CAD, and SUR 3210 - Case Studies and Legal Research, in addition to ACC 2020 - Principles of Accounting II, ENG 1020 - Freshman Composition: Analysis, Research, and Documentation, MGT 3000 - Organizational Management, and college courses in calculus, probability and statistics, and physics. See advisor for details.

TECHNICAL COMMUNICATION AND MEDIA PRODUCTION DEPARTMENT

Studies in the Technical Communication and Media Production Department blend the knowledge of communication practices and technology. Course work in technical communication develops essential skills for working professionals in the technical, scientific, medical, media production, or corporate communications fields.

Technical Communication and Media Production Department course work focuses on the development of reader-centered, content-driven information products produced in various areas of concentration including corporate communications, media and interactive media production, or technical writing and editing.

Bachelor of Science

The Technical Communication and Media Production Department offers a B.S. degree in Technical Communication with four concentrations and a technical communication minor, and three certificate programs. In addition, the department offers a digital media minor in conjunction with the Department of Art and the Department of Communication Arts and Sciences. The four concentrations are:

- corporate communications and training
- multimedia production
- technical writing and editing
- video and media production

Each individual concentration 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 technical communication, 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 media or interactive media format suitable to their area of concentration.

Computer Skill Requirement

Computer skills are required of all students majoring, minoring, or enrolled in a certificate program in the department. Students can meet this requirement by:

providing documentary evidence at the time they see their department advisor of previous satisfactory completion of an academic or industrial training course in computer literacy and document processing

-or-

• successful completion with a grade of "C" or better of an approved MSCD course in CIS or CSS in the semester following the declaration of their major, minor, or enrolling in a certificate program. The department advisor will work with the student to select the most appropriate course for the student's academic needs.

Technical Communication Minor

The technical communication minor provides a general background in preparing technical information designed to meet the minimal needs of industry and government, with the opportunity to concentrate on coursework in the area of most interest to the student. The minor is particularly useful to people majoring in scientific and technological disciplines as a means of expanding their employment skills.

Digital Media Minor – Departments of Art, Communication Arts and Sciences and Technical Communication and Media Production

The digital media minor includes courses from the departments of Art, Communication Arts and Sciences, and Technical Communication and Media Production. This minor consists of 24 hours, 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.

Technical Communication Certificates

The Technical Communication and Media Production Department offers three certificate programs that enable students to enhance the professional training and experience an individual already possesses in order to expand employment opportunities and advancement. The three certificate programs are:

- corporate video production
- multimedia production
- technical writing and editing

Students enrolling in one of the major concentrations, one of the minors, or a certificate program must confer with a department advisor.

Technical Communication Major for Bachelor of Science

Technical Communication Core

All technical communication majors are required to complete the following courses:

REQUIRED CORE		
COM 2720	Introduction to Communication Concepts and Systems	
COM 3780	Communication Law	
REQUIRED SENIOR EXPERIENCESEMESTER HOURS		
COM 4410	Budgeting and Planning for Media Productions	
-or-		
COM 4790	Senior Seminar in Technical Communications	
Total		

Corporate Communications and Training Concentration

This communications concentration prepares the student for a career in technology-based training and/ or managing the flow of information within and between technical and corporate communications networks and systems. It includes practical experience and a theoretical understanding of corporate training and corporate communication reflecting the culture that exists within a corporation. It focuses on the various methodologies for the dissemination of information within corporations and governmental agencies. The curriculum is designed to provide breadth of knowledge and multi-task capability.

TECHNICAL COMMUNICATION CORE		
REQUIRED CONCENTRATION COURSES		
COM 2610	Introduction to Technical Writing	
COM 3510	Corporate Communications	
COM 3520	Communication of Power and Authority	
COM 3530	Corporate Cultures	
COM 3570	Technology-Based Training	
COM 3630	Designing Technical Publications	
Subtotal		
Electives		
Choose 15 cre	edit hours from the following list:	
COURSES		
COM 2430	Introduction to Technical Media	
COM 2460	Media Graphics Production	
COM 3310	International Technical Communications	
COM 3330	Technical Writing for Translation	
COM 3520	Communication of Power and Authority	
COM 3625	Usability Testing	
COM 3670	Writing for the Environmental Industry	
COM 4830	Law of Cyberspace - Communication	
COM 4760*	Advanced Internship in Technical Communications	
*Internships require permission of instructor.		

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Elective Courses Outside the Department:			
COURSES			
HMT 4730	Principles of Negotiation		
MGT 3550	Manufacturing and Service Management		
MGT 4610	Labor/Employee Relations		
SOC 3160	Industry, Work and Occupations		
Subtotal			
Total for Corporate Communications and Training Concentration			

Multimedia Production Concentration

This communication concentration provides the student with the theory, production and programming practices of interactive Web, DVD, and multimedia production. The course work includes the writing, editing, designing, authoring, and programming of interactive multimedia projects in addition to professional experience and hands-on practice with computer hardware and software. Such productions are frequently used for education, training, marketing, public relations, and sales purposes.

TECHNICAL COMMUNICATION CORE9		
REQUIRED C COM 2450 COM 2460 COM 3450 COM 3470 COM 2480 CSS 1201	ONCENTRATION COURSES.SEMESTER HOURSBasic Multimedia Production.3Media Graphics Production3Intermediate Multimedia/Web Production3Writing for Interactive Media3Corporate Animation3Understanding Programming3	
COURSES CSS 1247 CSS 2267	f the following: SEMESTER HOURS Introduction to Programming: Visual Basic	
	edit hours from the following list: TAL COURSES	
COM 2400 COM 2420 COM 2430 COM 2460	Basic Nonlinear Video Editing3Basic Single Camera Video Production3Introduction to Technical Media3Media Graphics Production3	
COM 2470 COM 2480 COM 2610 COM 2800	Basic DVD Authoring3Introduction to Computer Animation3Introduction to Technical Writing3Introduction to Audio Production3	
COM 3310 COM 3330 COM 3400 COM 3420	International Technical Communications.3Technical Writing for Translation.3Intermediate Nonlinear Video Editing3Intermediate Single Camera Video Production3	
COM 3440 COM 3480 COM 3510 COM 3520	Scriptwriting for Video3Interactive 3D Production3Corporate Communications3	
COM 3620 COM 3630 COM 3640	Communication of Power and Authority 3 Technical Editing 3 Designing Technical Publications 3 Writing Computer-User Software Documentation 3 Writing Library Documentation 3	
COM 3680 COM 3680 COM 3660 COM 4380	Writing Hardware Documentation3Internet Document Design for Technical Communicators3Variable Topics in Industrial and Technical Communications3Law of Cyberspace - Communications3	

COM COM COM	4450	Advanced Single Camera Video Production3Advanced Multimedia/DVD Production3Motion Graphics for Video3Advanced Internship in Technical Communications.1-12	
*Interi	nships re	quire permission of instructor.	
Electiv	e Course	s Outside the Department	
CIS	2110**	Structured Problem Solving in Information Systems	
CIS	3030**	Business Web Page Development	
CIS	3050**	Fundamentals of Systems Analysis and Design	
CIS	3060**	Database Management Systems	
CIS	3230**	Telecommunication Systems and Networking	
CSS	3607**	Advanced Web Programming: Java and Perl	
<i>Subtotal</i>			
Total for Multimedia Production Concentration			
**These courses may have prerequisite requirements within the departments.			

Video and Media Production Concentration

This communication concentration provides the student with the theoretical and practical experience required to design, write, edit, and produce media and video productions for use in industry, government, corporate, cable narrowcasting, and other organizations. Such productions are frequently used for training, image creation, promotional, motivational, narrowcasting, and sales purposes.

TECHNICAL	COMMUNICATION CORE9
REQUIRED CO	DNCENTRATION COURSESSEMESTER HOURS
COM 2400	Basic Nonlinear Video Editing
COM 2420	Basic Single Camera Video Production
COM 2430	Introduction to Technical Media
COM 3440	Scriptwriting for Video
Subtotal	
Choose 12 cred	lit hours from the following:
COURSES	
COM 2450	Basic Multimedia Production. 3
COM 2460	Media Graphics Production
COM 2470	Basic DVD Authoring
COM 2480	Introduction to Computer Animation
COM 2800	Introduction to Audio Production
COM 3400	Intermediate Nonlinear Video Editing
COM 3420	Intermediate Single Camera Video Production
COM 3470	Writing for Interactive Media
COM 3480	Interactive 3D Production
COM 4401	Advanced Nonlinear Video Editing
COM 4420	Advanced Single Camera Video Production
COM 4430	Directing and Lighting for Nonbroadcast Video
COM 4480	Motion Graphics for Video
COM 4760*	Advanced Internship in Technical Communications
Subtotal	
Electives	
Choose 9 hours	from courses not taken to fulfill hours in the concentration electives or choose from
the following:	
COURSES	
COM 2610	Introduction to Technical Writing
COM 3310	International Technical Communications
COM 3330	Technical Writing for Translation
COM 3450	Intermediate Multimedia/Web Production

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3510	Corporate Communications
3520	Communication of Power and Authority
3620	Technical Editing
3630	Designing Technical Publications
3640	Writing Computer–User Software Documentation
3650	Writing Hardware Documentation
3660	Variable Topics in Industrial and Technical Communications
3680	Internet Document Design for Technical Communicators
4450	Advanced Multimedia/DVD Production
4760*	Advanced Internship in Technical Communications
	es Outside the Department
SES	
SES 3440**	Television Production SEMESTER HOURS
SES 3440** 3460**	Television Production
SES 3440** 3460**	Television Production SEMESTER HOURS
SES 3440** 3460** 4440**	Television Production
3440** 3460** 4440** 3530**	Television Production
3440** 3460** 4440** 3530** 2600** 4890**	Television Production
3440** 3460** 4440** 3530** 2600** 4890**	Television Production
3440** 3460** 4440** 3530** 2600** 4890**	Television Production
	3520 3620 3630 3640 3650 3660 3680 4450 4760*

Technical Writing and Editing Concentration

This communications concentration provides the student with both the theory and production practices of technical writing and editing used by industry and government. It includes course work in the writing, editing, design, and production of technical reports, proposals, and manuals in addition to professional experience and hands-on practices with computer hardware and software. The curriculum is designed to provide breadth of knowledge and multitask capability.

	mmunication Core
REQUIRED CO	ONCENTRATION COURSESSEMESTER HOURS
COM 2610	Introduction to Technical Writing
COM 3310	International Technical Communications
COM 3620	Technical Editing
COM 3625	Usability Testing
COM 3630	Designing Technical Publications
COM 3670	Writing for the Environmental Industry
Choose two of	f the following courses:
COM 2420	Basic Single Camera Video Production
COM 2430	Introduction to Technical Media
COM 2450	Basic Multimedia Production
COM 2460	Media Graphics Production
COM 2470	Basic DVD Authoring
COM 2480	Introduction to Computer Animation
Subtotal	6
Choose 9 cred	it hours from the following:
ELECTIVES	
COM 3330	Technical Writing for Translation
COM 3480	Interactive 3D Production
COM 3510	Corporate Communications
COM 3520	Communication of Power and Authority
COM 3625	Usability Testing
COM 3640	Writing Computer-User Software Documentation
COM 3650	Writing Hardware Documentation

^{**}These courses may have prerequisite requirements within the departments.

COM	3660	Variable Topics in Industrial and Technical Communications
COM	4380	Law of Cyberspace - Communications
COM	4760*	Advanced Internship in Technical Communications1-12
*Interr	iships red	quire permission of instructor.
Electiv	e Course	es Outside the Department
JRN	1010	Introduction to Journalism and Mass Media
JRN	1200**	Beginning Editing
ENG	2010^{**}	The Nature of Language
Subtot	al	
Total f	or Techn	ical Writing and Editing Concentration
**Thes	se course	es may have prerequisite requirements within the departments.

Extended Major Option

A student completing a community college degree may enroll for an extended major within the department if the student fulfills all of the following conditions:

- the curriculum for the associates degree to be used is accepted by the department, and
- a 2+2 agreement is in place between the community college granting the degree and the Technical Communication and Media Production Department.

To complete this extended major, the student must fulfill all the requirements specified in any of the technical communication concentrations. In addition, the student must fulfill all General Studies and multicultural requirements of MSCD. Students enrolled in the extended major are not required to complete a minor.

Technical Communication Minor

The technical communication minor is designed to provide additional skills that will increase employability for the student majoring in a scientific or technological discipline. In addition to the required core courses, the student selects five courses that may be in one of the specialized areas or may be divided among the areas offered by the Technical Communication and Media Production Department to provide an overview of the discipline.

REQUIRED C	OURSES**SEMESTER HOURS
COM 2430	Introduction to Technical Media
COM 2610	Introduction to Technical Writing
COM 2720	Introduction to Communication Concepts and Systems
Subtotal	9
Choose five o	f the following courses:
COM 2400	Basic Nonlinear Video Editing
COM 2420	Basic Single Camera Video Production
COM 2450	Basic Multimedia Production
COM 2460	Media Graphics Production
COM 2470	Basic DVD Authoring
COM 2480	Introduction to Computer Animation
COM 2800	Introduction to Audio Production
COM 3310	International Technical Communications
COM 3330	Technical Writing for Translation
COM 3400	Intermediate Nonlinear Video Editing
COM 3420	Intermediate Single Camera Video Production
COM 3440	Scriptwriting for Video
COM 3450	Intermediate Multimedia/Web Production
COM 3470	Writing for Interactive Media
COM 3480	Interactive 3D Production
COM 3510	Corporate Communications

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COM 3520	Communication of Power and Authority	
COM 3620	Technical Editing	
COM 3630	Designing Technical Publications	
COM 3640	Writing Computer-User Software Documentation	
COM 3650	Writing Hardware Documentation	
COM 3660	Variable Topics in Industrial and Technical Communications	
COM 3680	Internet Document Design for Technical Communicators	
COM 3780	Communication Law	
COM 4380	Law of Cyberspace - Communications	
COM 4401	Advanced Nonlinear Video Editing	
COM 4410	Budgeting and Planning for Media Productions	
COM 4420	Advanced Single Camera Video Production	
COM 4430	Directing and Lighting for Non-Broadcast Video	
COM 4450	Advanced Multimedia/DVD Production	
COM 4480	Motion Graphics for Video	
COM 4760*	Advanced Internship in Technical Communications1-6	
Subtotal		
Total	24	
*Internships require permission of instructor.		

DIGITAL MEDIA MINOR, SEE PAGES 133 AND 239 OF THIS CATALOG.

Certificate Programs

Students must complete each course in the certificate program with a grade of "C" or better in order to receive the certificate. The courses cannot be taken pass/fail.

Multimedia Production

COURSES	
COM 2400	Basic Nonlinear Video Editing
COM 2450	Basic Multimedia Production
COM 2480	Introduction to Computer Animation
COM 3450	Intermediate Multimedia/Web Production
COM 3470	Writing for Interactive Media
For more info	armation, call Dr. Lica Ortiz, 303, 352, 4387

Corporate Video Production

COURSES		
COM 2400	Basic Nonlinear Video Editing	
COM 2420	Basic Single Camera Video Production	
COM 2430	Introduction to Technical Media	
COM 3400	Intermediate Nonlinear Video Editing	
COM 3420	Intermediate Single Camera Video Production	
COM 3440	Scriptwriting for Video	
For more information, call Dr. Robert Amend, 303-556-2674.		

Technical Writing and Editing

COURSES	
COM 2610	Introduction to Technical Writing
COM 3620	Technical Editing
COM 3630	Designing Technical Publications
COM 3670	Writing for the Environmental Industry

^{**}Most courses have prerequisites. Please consult the course descriptions in the back of this Catalog.

Choose one of	the following	
COM 3640	Writing Computer–User Software Documentation	3
COM 3650	Writing Hardware Documentation	3
COM 3660	Variable Topics in Industrial and Technical Communications	3
For more information, call Dr. Kathryn O'Donnell, 303-556-4756		

Training and Organizational Development Minor

School of Letters, Arts & Sciences & School of Professional Studies

Departments of Technical Communication and Media Production, Communications Arts and Sciences, and Teacher Education

The Training and Organizational Development Minor is designed to develop skills that will increase employment opportunities in the fields of organizational training, instructional design, media production, and organizational development. The minor includes courses from the departments of Teacher Education, Communication Arts and Sciences, and Technical Communication and Media Production. Students must complete a minimum of 24 semester hours. In addition to required core courses, students choose one of the following concentrations:

- · organizational development strategies
- · content and technology delivery
- media and interactive media production

Students must contact an advisor to plan a course of study for their particular minor. If you have taken any one of the required courses as part of your major, you must substitute another course in the minor for it.

REQUIRED CORE COURSES		
SPE 2160	Organizational Communication Theory*	
EDT 3010	Instructional Delivery for Interactive Learning Environments	
COM 2430	Introduction to Technical Media	
COM 3780	Communication Law*	
-or-		
JRN 4500	Ethical and Legal Issues in Journalism*	
Required Core Total		

Choose at least three courses from one of the following three concentrations. The fourth course can be from any of the three concentrations or one of the electives. Courses cannot be used to meet both the requirements of this minor and the requirements of any major.

Organizational Development Strategies Concentration

This concentration addresses the needs of two different groups of learners: first, the student who wants to engage in organizational development strategies and tactics to bring about change in the structure, function, and cultural aspects of an organizational system; and second, the student who wants to develop communication skills and enter into a career as a trainer.

COURSES	
COM 3310	International Technical Communication
SPE 3100	Business and Professional Speaking*
SPE 3110	Organizational Leadership*
SPE 3170	Interpersonal Negotiation*
SPE 3760	Cultural Influences on Communication*
SPE 4700	Communication and the Trainer*

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Content and Technology Delivery Concentration

This concentration addresses the needs of teachers and resource personnel in educational systems who want to use technology to design and deliver instructional content.

COUR	SES.	SEMESTER HOUR	5
COM	2610	Introduction to Technical Writing*	3
COM	3440	Scriptwriting for Video*	3
COM	3470	Writing for Interactive Media*	3
COM	3680	Internet Document Design for Technical Communicators	3
EDT	3610	Applications of Educational Technology**2-:	3
SPE	3740	Psychology of Communication*	3

Media and Interactive Media Production Concentration

This concentration addresses the needs of students and working professionals who wish to master technology and integrate it into their training programs.

COURSES	
COM 2420	Basic Single Camera Video Production
COM 2450	Basic Multimedia Production
COM 2470	Basic DVD Authoring
COM 2480	Introduction to Computer Animation
COM 3420	Intermediate Single Camera Video Production*
COM 3450	Intermediate Multimedia/Web Production*
SPE 3440	Television Production*
SPE 4440	Advanced Television Production*
SPE 4450	Broadcast Journalism: Television*

Students may complete one 3-hour internship as part of the overall requirements. The internship is not required, needs advisor approval, and cannot substitute for any of the 12-hour core courses.

ELEC	ΓIVES	SEMESTER HOURS		
COM	4760	Advanced Internship in Technical Communication*		
	-or-			
SPE	3981	Cooperative Education: Broadcast Journalism*		
	-or-			
JRN	3981	Cooperative Education: News/Editorial*		
Required Core Courses				
Concentration Courses				
Total j	for Mino	r in Training and Organizational Development		
*Ther	e are pre	requisites for these courses.		

^{**}This course is offered for variable credit. Students must take this course for 3 credit hours to ensure they have the correct number of total credit hours.



TEACHER EDUCATION DEPARTMENT

The Department of Teacher Education offers professional preparation for teaching and educationrelated careers. This department prepares and recommends candidates to the Colorado Department of Education for initial teacher licensure and endorsement to teach in Colorado public schools in the following areas: Early Childhood Education (preschool through 3rd grade), Elementary Education (K-6th grade), K-12 Education (art, music, physical education), Secondary Education (7-12th grade Math, Science, Social Studies, English and Modern Languages), and Special Education, Generalist (ages 5 through 21). Minors are available in Bilingual/Bicultural Education, Early Childhood Education, Elementary Education, Secondary Education, Special Education, and Linguistically Diverse Education. Courses and workshops are also offered to meet Colorado Department of Education requirements for renewal of teacher licenses and Colorado Department of Human Services group leader and director qualifications.

The underlying theme of Teacher Education at MSCD is "The Teacher as Decision Maker in Diverse Contexts." MSCD faculty members believe that as decision makers, teacher candidates must seek information regarding the diversity of pupils' needs, interests, abilities, cultural backgrounds, and learner characteristics. Teacher candidates must also utilize the school district's benchmarks to develop an understanding of district curriculum. Having become familiar with pupils, goals, and the content of the curriculum, teacher candidates must then be able to make decisions regarding the appropriate arrangement of the classroom environment, selection of materials, use of appropriate methods and management techniques, and make all the concomitant decisions these choices entail.

Additionally, the student teaching assignment provides opportunities for teacher candidates to become aware of the variety of decisions they must constantly make and the possible choices available to them. They will be afforded opportunities to evaluate advantages and disadvantages of their decisions through participation in a sequence of developmental field experiences. Upon completion of the teacher licensure program, teacher candidates will be ready to begin careers as caring and competent educational decision-makers. Teacher candidates exiting the program will be able to:

- Use and apply knowledge gained from general studies, content, pedagogical studies, and personal experiences;
- Develop a reflective instructional practice that is standards-based and grounded in philosophical beliefs, research, and theory;
- Integrate math, literacy and technology into instruction;
- Use both informal and formal assessments;
- Recognize and make necessary modifications for diverse instructional learners;
- Possess the necessary professional and personal dispositions to maximize instructional impact on the P-12 learner.

The theme "Teacher as a Decision Maker in Diverse Contexts" is found throughout the courses and field experiences that are designed to expose teacher candidates to a variety of teaching theories, models, and practices formulated to help develop decision-making skills.

Teacher Education at MSCD is fully accredited by the National Council for the Accreditation of Teacher Education. The College's teacher education programs have been approved by the Colorado Department of Education (CDE) and the Colorado Commission on Higher Education (CCHE).

Academic departments in the School of Letters, Arts and Sciences, the School of Business and in the School of Professional Studies prepare candidates with the content and professional knowledge needed. Licensure programs in Early Childhood, Elementary, K-12 (Art, Music, Physical Education), Secondary (Math, Science, Social Studies, English, and Modern Languages), and Special Education offer teacher licensure courses, field experiences, and student teaching. The completion of a licensure program, including student teaching, a passing score on the appropriate content exam, and the completion of a bachelor's degree in an approved major or content area (post-baccalaureate) enables a prospective candidate to apply to the Colorado Department of Education for teacher licensure in the designated endorsement area.

The particular sequence of licensure courses to be taken is determined by the level at which a candidate wishes to teach. The licensure courses may be taken along with the bachelor's degree program or after the baccalaureate degree program has been completed. Candidates must earn at least a "C" in all licen-

sure courses, PSY 1800 and MTH 1610, MTH 2620 and MTL 3600 (if required.) Per college policies only courses with a grade of "C-" or better can be transferred to MSCD. Major departments may have their own acceptable grade guidelines. Licensure is granted by the Colorado Department of Education based on the presentation of appropriate documents, recommendation by the licensure officer, and payment of fees. Candidates receive endorsement in the level and/or subject area in which they are qualified to teach.

Candidates planning to enroll in a teacher education program and seeking teacher licensure are urged to maintain contact with both a major advisor and a teacher licensure advisor once a semester to recieve up to date information about the status of their MSCD teacher licensure program. Program requirements may be changed by the state or the College. Candidates need to stay in close contact with their advisors to stay abreast of changes and take advantage of transition procedures. Candidates who are not registered for three consecutive semesters will be readmitted under a new *catalog*, which may include new requirements.

Post-Baccalaureate Candidate Requirements:

Post-baccalaureate candidates (teacher licensure candidates who are college graduates) must provide evidence of a baccalaureate degree. In consultation with an education or content advisor, a draft individualized program plan will be developed based on an analysis of transcripts to ensure the necessary and appropriate content knowledge and to meet the Colorado endorsement standards for licensure. Equivalent courses will be credited when feasible and appropriate. Final approval of the individualized program must be obtained from the designated education and content department advisor in secondary and K-12 licensure. Post-baccalaureate candidates should begin the program by taking the initial teacher education courses.

The admission criteria for post-baccalaureate candidates seeking licensure include evidence of having at least a bachelor's degree and meeting the criteria for formal admission. Upon application to the teacher education program, copies of all official transcripts from previous institutions including the college where the candidate received the baccalaureate degree must be presented to the application center. Faculty in the Teacher Education Department, and the content area major, will review the transcript for completed coursework appropriate for the endorsement being sought. The post-baccalaureate candidate must successfully complete any additional courses in the content (endorsement) area, in addition to the professional sequence course work, as part of their approved teacher preparation program. It is STRONGLY recommended that post-baccalaureate candidates demonstrate successful completion of the (PLACE or PRAXIS) content exam as soon as is practical. Candidates should check with an advisor to determine the appropriate exam.

Post-baccalaureate candidates who are seeking teacher licensure, are not degree-seeking and have courses to transfer from a previous teacher education program, may become eligible to student teach with a minimum of 9 credit hours of teacher education course work. They must, of course, meet all licensure requirements. If only 9 credit hours are to be completed at MSCD, the candidate must provide a letter of recommendation from the previous teacher preparation program attesting to the candidate's professional dispositions, perfomance in the field, and good academic standing.

Provisional Admission to Teacher Education Programs

All candidates must obtain provisional admission to the program after registering for class by attending an application meeting. Upon admission, a candidate is assigned an education advisor.

Previously taken education courses may be considered as substitutions for MSCD courses if they are less than seven years old and closely match the required courses. Candidates should take all transcripts to their education advisor for review during their first semester in the licensure program. Candidates must certify that they left any previous education programs in good standing and are eligible to return by providing a letter of verification.

To obtain provisional admission candidates must:

- · Attend an application meeting,
- Complete the application forms, including the worker's compensation form.

Formal Admission to Teacher Education Programs

Candidates receive information about formal admission requirements at the application meeting. Candidates must fulfill the following requirements for formal admission:

1. Evidence of the following Basic Skills:

- Writing Skills—Degree-seeking candidates who have successfully completed ENG 1010 and ENG 1020 (or equivalent) with a grade of "C" or better, will be initially considered as having met the MSCD Basic Skills requirement in writing. The CLEP Exam for English, with a score of at least 50, may be substituted for ENG 1010 if the candidate has successfully completed ENG 1020 (grade of "C" or better). Those teacher licensure candidates who are college graduates (also called post-baccalaureate or post-baccalaureate candidates) will be initially considered as having met the MSCD Basic Skills requirement in writing through their earned college degree. However, teacher licensure candidates (either post-baccalaureate or degree seeking) who do not demonstrate satisfactory writing skills as they progress in their teacher preparation course work will be monitored and required to develop and follow a remediation plan in order to exit the program.
- Mathematics Skills—To demonstrate that candidates have met the Basic Skills requirement in
 mathematics, they must have either successfully completed a college-level mathematics course at
 an accredited college or university within the last five years OR passed an Advanced Placement
 Exam in mathematics OR they must have met the prerequisites for MTH 1610 by achieving one of
 the following within the last five years:
 - score of 85 or higher on Accuplacer elementary algebra test (degree seeking)
 - score of 72 or higher on Accuplacer elementary algebra test (post-Baccalaureate) OR
 - · score of 460 or higher on the SAT mathematics test OR
 - score of 19 or higher on the ACT mathematics test OR
- Oral Competency—All candidates (either post bac or undergraduate degree seeking) will be initially considered as having met the MSCD Basic Skills requirement in oral competency; however, teacher licensure candidates who do not demonstrate proficient oral communication skills as they progress in their teacher preparation course work will be identified, monitored, required to follow a remediation plan and demonstrate proficiency in order to exit the program. Degree-seeking candidates are recommended to take SPE 1010 for their required communications course.

2. Other Evidence to document for formal admission;

- 2.50 GPA overall coursework or 2.50 GPA over the most recent 30 semester hours of college course work completed (Note: 2.75 overall or 3.0 GPA over the last 45 semester hours needed for application for student teaching)
- Negative TB test (test taken within one year at the time of application to the program).
- · Copies of all transcripts from institutions of higher education, attended previously.
- · Completed fingerprint card and processing fee.

Eligibility for Student Teaching

Candidates begin the student teaching application process by attending the Student Teaching Application Meetings Parts I and II. The application deadline is the third Friday of September (for spring semester assignments) and the third Friday of February (for fall semester assignments). It is not possible to complete student teaching for initial licensure during the summer.

Prior to student teaching, all candidates must:

- Have been formally admitted to the teacher licensure program.
- Successfully complete all other college program and degree requirements.
- Have a minimum GPA of 2.75 in all course work or a 3.0 GPA in the last 45 credit hours.
- Successfully complete all courses required for licensure with a grade of "C" or better.
- Have a physical examination report including tuberculosis clearance within one year.
- Submit verification that the program plan and appropriate CAPP reports have been approved for student teaching by the candidate's education and major advisors.

- Complete at least 20 credit hours for degree-seeking candidates and 9 credit hours for post-baccalaureate at MSCD prior to student teaching.
- Document assessment at the developing level for all standards in the electronic portfolio (Live-Text) for all courses completed prior to the semester of application.
- Provide evidence of having passed the appropriate content examination.
- Complete MTH 1610 with a grade of "C" or better (or if a transfer or post-baccalaureate candidate, equivalent course that meets performance standard #2 of CPBS), which must be approved by a math advisor). Secondary candidates whose major is mathematics, chemistry, environmental science or economics are exempt from this requirement.
- Earn evaluations from two pre-student teaching field experiences that indicate achievement at the developing level in all course-related standard elements.

In addition, secondary and K-12 candidates must:

- Have a minimum GPA of 2.75 for all courses required in the major (or licensure content for post-baccalureates) and 2.75 overall in their licensure courses.
- Complete all required subject area courses in the candidate's endorsement area.
- Have approval from an advisor in the major in those departments in which a major/secondary education agreement is in place

Internship candidates who meet all the requirements for student teaching and have submitted an application to intern along with two letters of recommendation will be reviewed by the internship committee for approval. Approved candidates who are hired as full time teachers will be supervised by the *College* and will register for 18 hours of student teaching credit. It is the intern's responsibility to find a paid position. Internships are usually available only in licensure areas where teacher shortages exist.

Recommendation for Licensure

To be recommended for licensure to the Colorado Department of Education, candidates must:

- Complete all requirements for a bachelor's degree in the candidate's major area.
- Complete all requirements in the professional licensure sequence.
- Pass the appropriate content examination. Candidates should check with an advisor to determine the appropriate exam.
- Complete student teaching (640 hours; 16 complete weeks) and seminar with a "satisfactory" evaluation.
- Demonstrate proficiency in all licensure standards through their teacher candidate portfolio including the teacher work sample completed during student teaching.
- Receive evaluations of the student teaching experience from the cooperating teacher and the college supervisor that indicate proficiency in all Colorado Performance-Based Standards for teacher licensure.
- · Submit required evaluation documents.

Alternative Licensure Programs

The following programs are offered through Alternative Licensing. For more information on these programs and alternative routes, contact the Metro South Extended Campus at 303 721-1313. Programs are available only to students with a bachelor's degree who have already passed the appropriate content exam and hold a teaching position in a participating school district.

- Teacher in Residence is a two year program for licensure in high needs areas, particularly in Math, Science, Foreign Language and Linguistically Diverse (ESL/ELA) It is the candidate's responsibility to find a teaching position in a participating district prior to admission into the program. (p. 301)
- CASEL Colorado Accelerated Special Education Licensure Program is a two year alternative route to Special Education licensure as a Special Education Generalist. (pp. 302, 356)
- Alternative Licensure Program is a one year program for candidates who already have a record of
 three years full time teaching (emergency licensed or unlicensed teaching at a parochial, private,
 charter, out of the country school, etc.). (p. 302)

Teacher in Residence Program (TiR)

One alternative pathway to elementary and secondary licensure at MSCD is the Colorado Department of Education approved, two-year Teacher in Residence (TiR) program. After being hired by a participating metro Denver school district, TiR candidates must enroll in the TiR program. The program requires an intensive orientation before school starts, weekly classes for two semesters, submission of a portfolio/teacher work sample and extensive ongoing coaching and mentoring throughout the first two years of teaching.

TiR candidates earn 30 semester credit hours by participating in intensive coursework through weekly instruction designed to build the skills and knowledge necessary to effectively teach and successfully manage a classroom along with classroom mentoring and coaching by master teachers and TiR faculty. By the end of the second year, having completed all program requirements, the candidate will be recommended by the participating school district for an initial teacher's license. College credit received for participation in TiR is not interchangeable with the existing traditional licensure program curriculum and credit.

To participate in the TiR program, all candidates must:

- Possess a baccalaureate degree from an accredited institution of higher education and 30 semester hours in the appropriate content area preparation as evaluated by the hiring district;
- · Pass the appropriate Program for Licensing Assessments for Colorado Educators (PLACE) or PRAXIS II content exam prior to admission to the TiR program;

To participate in the TiR program, the hiring district must:

- Complete a transcript review to verify content qualifications
- · Submit a TiR Authorization Application to Colorado Department of Education, which includes a Colorado Bureau of Investigation background check.

The TiR program is operated out of the Metro South Extended Campus offices at 5660 Greenwood Plaza Blvd., Suite 100. Call 303-721-1313 for more information about the program or visit the website, www. mscd.edu/~tir.

Year 1:

REQU	IRED	COURSES SEMES	TER HOURS
TIR	4491	Teacher in Residence: Educational Theory and Methods	15
TIR	4492	2 Teacher in Residence Program: Advanced Field Experiences	15
Total.			

Year 2:

By the conclusion of the second year, the participating school district will recommend to the Colorado State Department of Education that the TiR teacher licensure candidate be granted an initial license to teach if the Colorado Performance Based Standards have been satisfactorily demonstrated at the proficient level during the second year. Continual demonstration of proficiency of the standards will be accomplished through each district's induction program, work with a building mentor, support from a coach, completion of a portfolio/teacher work sample and successful evaluation from the building principal.

Colorado Accelerated Special Education Licensure (CASEL)

The Colorado Accelerated Special Education Licensure (CASEL) Program is a Teacher in Residence (TiR) program that provides an alternative pathway to K-12 licensure as a special education generalist. Courses required for this program are the same as those required for the post-baccalaureate licensure program for special education generalist.

To enroll in the CASEL program, candidates must have a baccalaureate degree from a regionally accredited college or university, meet the Colorado Department of Education requirements for undergraduate coursework in general studies for elementary education licensure, pass the Elementary Education con-

tent test (PLACE 01 or PRAXIS 10014) and secure a special education teaching position with one of the participating metro-area school districts. The program requires a two-week orientation before school begins, weekly classes for 4 semesters, and a 4-week practicum during the summer between years one and two.

Alternative Licensure Program (ALP)

MSCD offers a third alternative pathway to elementary and secondary licensure. This Colorado Department of Education approved, one-year Alternative Licensure Program (ALP) has been created to assist candidates with at least 3 years of contractual instructional experience. This program is based on the Colorado Performance-Based Standards for teachers, but requirements are tailor-made for each candidate through the development of an Individualized Training Plan crafted by an analysis of each candidate's admission portfolio and participation in the initial training module. As the designated agency, MSCD will serve candidates hired by participating districts to teach in one of their schools accordingly; the ALP candidate must enroll in the AL Program at MSCD. The AL Program is designed to be completed in one school year, during which each candidate will work as both a full time teacher and full time student.

The candidate earns 15 credit hours by attending MSCD seminar courses. Additionally, each candidate is responsible for completing the individualized training plan (ITP) in one year. By the end of the year, having completed all program requirements, the candidate will be recommended for an initial license by MSCD. College credit received for participating in the ALP is not interchangeable with the existing traditional licensure program curriculum and credit. Candidates must successfully complete the entire year to receive any college credit for the program and MSCD's recommendation for licensure.

To participate in the one year Alternative Licensure Program, all candidates must:

- Hold a current Statement of Eligibility (SOE) issued by the Colorado Department of Education.
- Verify three years of contractual instructional teaching experience in their content area.
- Have a contract with one of the participating metro Denver school districts in the content area of the SOE.

The AL Program is operated out of Metro South Extended Campus offices at 5660 Greenwood Plaza Blvd., Suite 100. Please call 303 721-1313 for further information about the program or visit the website: www.mscd.edu/~tir.

Linguistically Diverse Education Minor and

Bilingual Endorsement Program

The principal objective of the Linguistically Diverse Education Minor and Added ESL / Bilingual Endorsement Programs is to prepare future teachers to meet the needs of all students, particularly the increasing numbers of culturally and linguistically diverse students. This minor and teacher endorsement program prepares teachers to conduct all phases of classroom instruction in a culturally and linguistically diverse setting and to promote K-12 students' academic success and development of English language and literacy and/or continued Spanish literacy. In the developmental sequence, the minor provides the potential or practicing teacher with a background of intercultural understanding and the ability to deliver content and literacy instruction using research-based language acquisition theory and practice; if teacher candidates choose the bilingual focus they will also be prepared to deliver content and literacy instruction in Spanish. The Linguistically Diverse Education Minor and Added Bilingual / ESL Endorsement Programs provide three options teacher candidates may pursue in order to achieve their professional goals.

Majors with Licensure Programs

Majors with Early Childhood Education Licensure	(Preschool - 3rd Grade
Behavioral Science	page 309
English	page 310
History	page 311
Human Development (recommended)	page 311
Speech Communications (Speech, Language, Hearing Sciences).	page 312
Minors	page 313
Post-Baccalaureate Programs	page 316
Majors with Elementary Education Licensure	(Kindergarten - 6th Grade
Behavioral Science	page 319
Biology	page 319
Chicano Studies	page 320
English	page 321
History	page 322
Human Development	page 322
Mathematics	page 323
Modern Languages (Spanish Concentration)	
Speech Communication (Speech, Language, Hearing Sciences)	page 325
Minors	1 6
Post-Baccalaureate Programs	page 327
Majors with K-12 Education Licensure	(Kindergarten - 12th Grade
Art Education	pages 120, 328
Music Education	pages 186, 330
Physical Education	page 256
Post-Baccalaureate	page 336
Majors with Secondary Education Licensure	(7th - 12th Grade
English	page 339
Mathematics	1 6
Modern Languages	1 0
French	page 341
German	page 342
Spanish	page 343
Science	page 344
Biology	page 344
Chemistry	
Environmental Science	
Social Studies	
African American Studies	2 0
Behavioral Science	2 0
Chicano Studies	1 0
Economics	2 0
History	
Political Science	
Minors	
Post-Baccalaureate Programs	page 35/

Special Education Major(Kindergarten—12th Grade)Special Education Generalistpage 358Elementary Education concentrationpage 358Secondary Education concentrationpage 359Minorpage 361Post-Baccalaureate Programpage 361Caselpage 362

PROFESSIONAL EARLY CHILDHOOD EDUCATION LICENSURE

The Early Childhood Licensure Program prepares candidates to teach preschool through grade three. Through the sequence of courses and field experiences, the candidate satisfies all of Colorado's academic standards for licensure in Early Childhood Education. Candidates are prepared by an emphasis on child development of all kinds: physical, cognitive, social, and emotional, to instruct children in preschool, and kindergarten through third grade.

Degree-seeking Early Childhood Education Licensure candidates must choose from one of the following majors to earn licensure in Early Childhood Education:

Behavioral Science
English
Human Development (recommended)
History
Speech Communication (Speech, Language, and Hearing Sciences)

Early Childhood Education Licensure Candidates

Candidates who wish to obtain Colorado Licensure in Early Childhood Education must earn a Bachelor of Arts (BA) degree in an approved content major. The following major advising guides are prepared to assist candidates in choosing an appropriate major for Early Childhood Education. Candidates must choose a major from the following selections in order to fulfill licensure requirements for MSCD and the state of Colorado. The advising guides are not substitutes for meeting with academic advisors. Licensure candidates must consult an advisor in their selected major as well as one in education. To better support candidates in their major selections, eight-semester planned sequences for each of the licensure majors can be obtained inside the Teacher Application Center in West Classroom, Room 136.

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. The application form for the program must be completed by attending an Application Meeting scheduled at the beginning of every semester by the Teacher Application Center (WC 136). Formal admission must be obtained BEFORE Level II education coursework can be taken. Refer to the Provisional and Formal Admission section of this catalog for more information about the necessary process.

Early Childhood Education General Studies

The following general studies fulfill the general course requirements for MSCD and the Teacher Education Program for degree-seeking candidates. The following general studies or equivalent courses are required for teacher licensure for degree-seeking candidates. Post-baccalaureate candidates may need to fulfill some general studies requirements; therefore, they should contact an advisor in Early Childhood Education to verify the courses required for licensure.

COURSES		SEMESTER HOURS
ENG 1	1010	Freshman Composition: The Essay
ENG 1	1020	Freshman Composition: Analysis, Research, and Documentation
SPE 1	1010	Public Speaking
MTH 1	1610	Integrated Mathematics I
SCI 2	2610	Integrated Natural Science I
SCI 2	2620	Integrated Natural Science II
ENG 2	2460	Introduction to Children's Literature
ARTH 2	2100	An Integrated Approach to Art and Music (MUS 2040)

	GEG	1920	Concepts and Connections in Geography
	HIS	1210	American History to 1865
		-or-	
	HIS	1220	American History Since 1865
	PSC	1010	American National Government
	Genera	al Studie	25
	MTH	2620	Integrated Mathematics II (not a General Studies course)
	MTL	3600	Mathematics of the Elementary Curriculum (not a General Studies course) 3
	Genera	al Studie	es and Math Total39
E l	Cl-:1.	11 J T	7.1
Eari	y Chiic The fo	llowing	Education Licensure Sequence courses fulfill the required courses for state licensure in Early Childhood Educa-
			the minor required for the degree.
	COUR		SEMESTER HOURS
	PSY	1800	Developmental Psychology
	RDG	3110	Foundations of Literacy Instruction in Grade P-6
	RDG	3120	Developing Print Literacy: Preschool—Grade 3
	SED	3600	The Exceptional Learner in the Classroom
	ECE	2340	Foundations of Early Childhood Education
	ECE	2350	Foundations of Early Childhood Education: Field Experience
	ECE	3150	Developmentally Appropriate Practice I: Planning and Management with
			Literacy Emphasis
	ECE	3160	Developmentally Appropriate Practice I: Field Experience
	ECE	3330	Social Studies and Expressive Arts for the Young Child
	ECE	3350	Documentation, Assessment, and Decision-Making for Early Childhood 3
	ECE	4330	Science, Health, and Mathematics for the Young Child
	ECE	4370	Developmentally Appropriate Practice II: Integrated Curriculum
			and Technology
	ECE	4380	Developmentally Appropriate Practice II: Field Experience
	ECE	4390	Student Teaching & Seminar: Early Childhood
	Licens	ure Tota	1

Behavioral Science Major with Early Childhood Licensure

The Behavioral Science major is an interdisciplinary Social Science major. The foundation courses in the major provide a strong interdisciplinary approach and broaden candidates' knowledge in the social science areas of History, Civics, Human Development, Cultural Diversity, and Economics. The core curriculum is designed to prepare candidates to teach to the Colorado Model Content Standards for Early Childhood Education.

Behavioral Science Foundation Courses

COURSES		SEMESTER HOURS
ANT	1310	Introduction to Cultural Anthropology
ECO	2010	Principles of Economics—Macro
PSY	1001	Introduction to Psychology
SOC	1010	Introduction to Sociology
PSC	1010	American National Government
HIS	1210	American History to 1865
	-or-	
HIS	1220	American History since 1865

Candidates must take a total of 24 credit hours of electives in addition to the Behavioral Science foundation courses. Candidates select 12 credits in a major focus and 12 credits from the Behavioral Science electives. Nine credits in each of these two groups must be upper division credits for a total of 18 upper division credits. PSY 1800 is part of the Early Childhood Licensure sequence; however, the

credits can be applied to the 24 credit hours of electives. See an advisor in Behavioral Science before registering for classes.

Major Total	
General Studies and Math Total*	33
Licensure Total	46
Grand Total	121

*General Studies Exception for Behavioral Science with Early Childhood Licensure:

PSC 1010, HIS 1210 satisfy Social Studies General Education requirements. Up to 6 hours of major courses can be applied to General Studies. See an advisor in Behavioral Science for further information.

English Major with Early Childhood Licensure

The English Major includes additional preparation in literature and composition. The core curriculum is designed to ensure that the program meets Colorado Model Content Standards. English is a major which will address the literacy standards by providing the candidate with additional preparation in language and literacy. The program provides candidates with a strong foundation in literature and literary genres; a solid perspective on the English language, including its history, structure, and development; and both theory and practice in composition, language arts, communication, and teaching methodology. The candidates will also be prepared to teach literature of various cultures, accommodate cultural and ethnic diversity in language and writing, and communicate effectively with a diverse population of candidates.

Literature Core				
COURSES SEMESTER HOURS				
ENG 2100	Introduction to Literary Studies			
ENG 2220	American Literature: Civil War to Present			
ENG 3100	Chaucer, Shakespeare, Milton			
ENG 3440	Myth, Symbol, and Allusion in Literature			
ENG 3461	Children's Literature: Theory and Practice			
Total				
Language/Lin	guistics Core			
COURSES				
ENG 2010	The Nature of Language			
ENG 3020	History of the English Language			
Total	6			
Writing/Com	position Core Courses			
COURSES				
ENG 2500	Art and Craft of Writing			
-or-				
ENG 2520	Introduction to Creative Writing			
ENG 3510	Advanced Composition			
Total	6			
Language Art	s Core			
COURSES				
ENG 4650	Teaching Composition in the Elementary School K-6			
ENG 4660	Teaching Literature and Language K-6 (Senior Experience)			
Total	6			
English Electives				
Two upper-division English courses selected in consultation with and approved by a designated				
English advisor6				
Major Total				
General Studies and Math Total				
Licensure Tota	al 46			
Grand Total				

General Studies Exception for English Major:

Candidates majoring in English take ENG 3461 Children's Literature: Theory and Practice. Therefore, English majors do not take ENG 2460 Children's Literature listed under the General Studies guide for Early Childhood Education. Instead, English majors must choose an additional Arts and Letters course to fulfill the general studies requirements for MSCD.

History Major with Early Childhood Licensure

The core curriculum is designed to ensure that the program meets Colorado Endorsement Standards. The curriculum is designed to prepare candidates to teach to the Colorado Model Content Standards for Early Childhood Education. The foundation courses in the major provide the candidate with the knowledge base to understand contemporary societal issues while drawing on experiences from the

History Foundation Courses:

COUF	RSES				
HIS	1010	Western Civilization to 1603 (or 1715)			
HIS	1020	Western Civilization since 1603 (or 1715)			
HIS	1210	American History to 1865*			
HIS	1220	American History since 1865			
HIS	4820	Senior Seminar			
Found	lation To	tal			
General and Upper Division History Courses					
Histor	y major.	s must select 27 credit hours of History courses in consultation with an advisor to com-			
plete the program.					
Major Total 42					
General Studies and Math Total					
	Licensure Total				
Grana	Grand Total.				

General Studies Exception for English Major:

Satisfies HIS General Education requirement

Human Development Major with Early Childhood Licensure:

Human Development is the recommended major for Early Childhood candidates. This interdisciplinary major in human development will provide students with a focus on the entire life span and in-depth knowledge about theory, research, and application in human development. Students will participate in field experience to make connections between theory, research and practice. The core curriculum of Human Development is designed to prepare candidates to pass the licensure content exam and to teach to the Colorado Model Content Standards for Early Childhood Education.

Human Development Major for Early Childhood Licensure:

COURSES		SES	
	PSY	1800	Developmental Educational Psychology
	PSY	1001	Introductory Psychology
	SOC	1010	Introduction to Sociology **
	BIO	1000	Human Biology for Non-majors**
	PSY	3280	Developmental Research Methods ***
	PSY	3340	Cognitive Development and Learning ***
	PSY	4960	Senior Thesis in Human Development*
	HES	3070	Parental Health Care Issues
		-or-	
	NUT	2040	Introduction to Nutrition
	SOC	3410	The Family in Transition
	PSY	3240	Infancy

ECE	4360	Cultural Influences on the Socialization of Children
¥ .	· ·	(meets Multicultural Requirement)
		Experience requirement
	,	r or General Studies-not both; see advisor
***Pre	erequisit	e PSY 1800 or PSY 3250
In add	lition, ca	andidates must take 9-10 hours from the following list. Candidates may not use the
same o	courses	to count for the major and for the minor or for General Studies.
COUR	SES	
ECE	3340	Administration of Early Childhood Program
EDU	4310	Parents as Partners in Education
HPS	4500	Motor Learning and Development
PSY	2310	Introduction to Statistics for Social and Behavioral Sciences*
PSY	3400	Psychology of Exceptional Children
SPE	2890	Language Acquisition
*stude	ents who	have taken MTH 1210 or its equivalent and transfer before deciding to major in
Нита	n Devel	opment may substitute it for PSY 2310. MTH 1210 cannot be used for both the major
and to	satisfy t	he Level 1 General Studies mathematics requirement.
Major	Total .	
Gener	al Studi	es and Math Total*
	ura Tota	

Speech Communications Major with Early Childhood Licensure Speech, Language, and Hearing Sciences Concentration

An emphasis in Speech, Language, and Hearing Sciences prepares Early Childhood candidates to teach to the Colorado Model Content standards and provides a sound background for candidates pursuing careers in education, health care, and vocational rehabilitation. Graduates in Speech, Language, and Hearing Sciences will have prerequisite coursework to pursue a master's degree in Speech-Language Pathology or Audiology, which opens up possible careers in schools, community clinics, hospitals, rehabilitation centers, and practice.

Speech Communications with Early Childhood Licensure Core Courses

	Speec	h Comn	nunicationSpeech, Language, and Hearing Sciences			
	COUR	RSES				
	BIO	1080*	General Biology I (meets SCI 2620 requirement)			
	BIO	1090*	General Biology Laboratory I			
	BIO	2310*	Human Anatomy and Physiology I			
	SPE	2530*	Voice Science: Pathology and Technology			
	SPE	2890*	Language Acquisition			
	SPE	3500*	Anatomy and Physiology of the Speech and Hearing Mechanism*(BIO 3500) 3			
	BIO	3501*	Anatomy and Physiology of the Speech and			
			Hearing Mechanism Laboratory* (SPE 3501)			
	SPE	3540	Phonetics and Language Sample Analysis			
	SPE	3600	Audiology I			
	SPE	3740*	Psychology of Communication			
	THE	3200*	Oral Interpretation			
Subtotal30 hours						
	*SPE 3	3500 and	d SPE 3501 are cross-listed with BIO 3500/3501. Please register for SPE 3500 (lecture)			
	and B	and BIO 3501 (lab). Please contact Speech Department. SPE 1010 (Public Speaking) is a prerequisite				
	to TH	E 3200, S	SPE 2530, SPE 2890, and SPE 3740.			

Additional co	ourses for candidates seeking licensure in Early Childhood Education				
COURSES	SEMSTER HOURS				
SPE 3570	Diagnostic Procedures in Communication Disorders				
SPE 3590	Classroom Intervention for Communication Disorders				
SPE 4500	Clinical Methods in Communication Disorders				
Subtotal	9				
Elective Cour	rses (3 hours required)				
COURSES	SEMESTER HOURS				
PSY 3340	Cognitive Development and Learning				
SPE 1500	Introduction to Communication Disorders				
SPE 1610	American Sign Language I				
SPE 1620	American Sign Language II				
SPE 3580	Speech Disorders: Articulation and Stuttering				
SPE 3620	Aural Rehabilitation				
SPE 4510	Language Disorders				
Subtotal					
Total credits r	equired for Speech, Language, and Hearing Sciences Major (includes SPE 1010) \dots 42				
	es and Math Total				
Licensure Tot	al				
Grand Total.	Grand Total				

General Studies Exception for Speech Major with Early Childhood Education:

BIO 1080 and 1090 (General Biology and Lab) are prerequisites for BIO 2310. These courses are required for this major and may be used to substitute the SCI 2620 General Studies requirement.

Early Childhood Education Minor Only

Bachelor degree seeking Early Childhood licensure candidates must minor in Early Childhood Education to complete their degree and licensure program within four years.

The minor in Early Childhood Education also serves other groups of candidates. It meets the needs of candidates who wish to work with young children in a setting that does not require teacher licensure, especially in roles as parents, day care group leaders, and day care directors. Finally, it serves candidates who intend to pursue graduate studies in special education, psychology, social work or other related fields with a focus on working with young children. Candidates seeking licensure need to complete additional requirements including gaining formal admission to the Teacher Education Program and student teaching. The minor does not include all teacher licensure requirements.

REQUIRED COURSES SEMESTER HOURS				
ECE 2340	Foundations of Early Childhood Education*			
ECE 2350	Foundations of Early Childhood Education: Field Experience*			
ECE 3150	Developmentally Appropriate Practice I:			
	Planning and Management with Literacy Emphasis**			
ECE 3160	Developmentally Appropriate Practice I: Field Experience**			
ECE 3330	Social Studies and Expressive Arts for the Young Child			
ECE 3350	Documentation, Assessment, and Decision-Making for Early Childhood 3			
ECE 4330	Science, Health, and Mathematics for the Young Child			
RDG 3110	Foundations of Literacy Instruction in Grades P-6			
RDG 3120	Developing Print Literacy: Preschool-Grade 3**			
Subtotal	<i>Subtotal</i>			

^{*}These two courses must be taken concurrently.

^{**}These three courses must be taken concurrently.

Linguistically Diverse Education Minor and Added ESL / Bilingual Endorsement Programs

The principal objective of the Linguistically Diverse Education Minor and Added ESL / Bilingual Endorsement Programs is to prepare future teachers to meet the needs of all students, particularly the increasing numbers of culturally and linguistically diverse students. This minor and teacher endorsement program prepares teachers to conduct all phases of classroom instruction in a culturally and linguistically diverse setting and to promote K-12 students' academic success and development of English language and literacy and/or continued Spanish literacy. In the developmental sequence, the minor provides the potential or practicing teacher with a background of intercultural understanding and the ability to deliver content and literacy instruction using research-based language acquisition theory and practice; if teacher candidates choose the bilingual focus they will also be prepared to deliver content and literacy instruction in Spanish. The Linguistically Diverse Education Minor and Added Bilingual / ESL Endorsement Programs provide three options teacher candidates may pursue in order to achieve their professional goals.

LINGUISTICALLY DIVERSE EDUCATION MINOR

Option 1: Linguistically Diverse Education Minor

Intermediate fluency in a language other than English is required. This fluency can be satisfied by the completion of at least two semesters (10 credits) in one foreign language at an accredited college with grades of "C" or better or by providing a satisfactory test score from a recognized foreign language proficiency exam (for Spanish this is a score of at least 400 on the BYU Spanish Language Proficiency exam), An initial license area is needed. The student completes a 3 credit field experience course in culturally and linguistically diverse education.

Option 2: Linguistically Diverse Education Minor with recommendation for the additional Colorado Department of Education endorsement as Linguistically Diverse Education: ESL Specialist

A student must complete the requirements for Option 1 with the 3 credit field experience course replaced by an eight week Linguistically Diverse Student Teaching course (LDE 4590, 6 credits). In addition, the student must complete eight weeks of student teaching in an elementary, secondary, or early childhood classroom working with a cooperating teacher in the student's initial licensure area (6 credits). A student must pass the content test in their initial licensure area prior to applying for student teaching. The student must pass the Linguistically Diverse: ESL Specialist PLACE Test prior to applying for ESL endorsement.

Option 3: Linguistically Diverse Education Minor with recommendation for the additional Colorado Department of Education endorsement as Linguistically Diverse Education: Bilingual Specialist

A student must complete the requirements for Option 2 with the eight week Linguistically Diverse Student Teaching course completed in a bilingual classroom (LDE 4690, 6 credits). In addition, the student must score a minimum score of 400 on the BYU Spanish language proficiency exam or have satisfactorily completed the requirements for a major in Spanish or for Spanish endorsement, satisfactorily complete a course in teaching literacy and content in Spanish (LDE 3950), and pass the Spanish Language PLACE Test. The student must pass the Linguistically Diverse: Bilingual Specialist PLACE Test prior to applying for Bilingual endorsement.

LINGUISTICALLY DIVERSE EDUCATION MINOR Required Core Courses Semester Hours SPE 2890 ANT 2330 Cross-Cultural Communication -or-SPE 3760 CHS 3300 LDE 3510 Perspectives in Education for Culturally and One of the following three courses depending on initial licensure area: ECE 3750 Enhancing Language Learning in Early Childhood Education RDG 3530 Foundations of Language and Literacy for Culturally and Literacy in the Content Areas for Secondary Culturally and RDG 3290 Additional course for Option 1 LDE 4520 Field Experience in Culturally and Linguistically Additional course for Option 2 LDE 4590 Culturally and Linguistically Diverse: ESL Student Additional courses for Option 3 LDE 3950 LDE 4690 Culturally and Linguistically Diverse: Bilingual Student

Added Linguistically Diverse Endorsement

This option is for teachers already licensed in early childhood, elementary, or secondary education. The teacher must complete Option 1 of the Linguistically Diverse Minor and pass the Linguistically Diverse: ESL Specialist PLACE Test prior to applying for ESL Endorsement.

Added Linguistically Diverse Bilingual Endorsement

This option is for teachers already licensed in early childhood, elementary, or secondary education and who have completed the Linguistically Diverse Endorsement. The teacher must earn a minimum score of 400 on the BYU Spanish language proficiency exam or have satisfactorily completed the requirements for a major in Spanish or Spanish endorsement. In addition, the teacher must complete a course in teaching literacy and content in Spanish (LDE 3950, 3 credits), and pass the Spanish Language PLACE Test. The teacher must pass the Linguistically Diverse: Bilingual Specialist PLACE Test prior to applying for Bilingual endorsement.

Added Endorsement in Elementary Education

for Early Childhood Candidates

Early Childhood candidates who complete their licensure program at MSCD may add an endorsement (license) in Elementary Education by completing the following requirements. The added endorsement may increase the number of teaching positions the licensed Early Childhood teacher is eligible to apply for.

Required Elementary Courses SEMESTER HOURS **COURSES** EDT 3610 RDG 4000 EDU 4100 EDU 4105 Integrated Elementary Language Arts and Social Studies *Field experience must take place in intermediate grades 4-6. Other Requirements

No additional student teaching is necessary; however, the added endorsement student must demonstrate a passing score on an appropriate elementary licensure content test. These additional courses and test may be completed before or after the Early Childhood student teaching. Changes in the requirements for Elementary Licensure may affect the requirements for added endorsement.

Early Childhood Post-Baccalaureate Licensure

Admission requirements for Post-Baccalaureate candidates seeking licensure include evidence of having at least a conferred Bachelor's degree and meeting the criteria for formal admission. Upon application to the Teacher Education Program, copies of official transcripts from all the accredited colleges attended including the one where the candidate received the baccalaureate degree must be brought to the Teacher Application Center. Upon consultation, the Early Childhood advisor will review the transcript for completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence.

SEMESTED HOLDS

COURSES

COUR	SES	SEMESTER HOURS
PSY	1800	Developmental Educational Psychology
ECE	2340	Foundations of Early Childhood Education
ECE	2350	Foundations of Early Childhood Education: Field Experience
RDG	3110	Foundations of Literacy Instruction in Grade P-6
RDG	3120	Developing Print Literacy: Preschool—Grade 3
SED	3600	The Exceptional Learner in the Classroom
ECE	3150	Developmentally Appropriate Practice I:
		Planning and Management with Literacy Emphasis
ECE	3160	Developmentally Appropriate Practice I: Field Experience
ECE	3330	Social Studies and Expressive Arts for the Young Child
ECE	3350	Documentation, Assessment, and Decision-Making for Early Childhood 3
ECE	4330	Science, Health, and Mathematics for the Young Child
ECE	4370	Developmentally Appropriate Practice II:
		Integrated Curriculum and Technology
ECE	4380	Developmentally Appropriate Practice II: Field Experience
EDU	4390	Student Teaching & Seminar: Early Childhood (P-3)

Additional Licensure Requirements

MTH	1610	Integrated Mathematics I
MTH	2620	Integrated Mathematics II
MTH	3600	Mathematics of the Elementary Curriculum (not a General Studies course) 3
PHY	1800	Developmental Educational Psychology
Total.		
Licensi	ıre Total	4
Genera	ıl Studie:	5
Grand	Total	.55

PROFESSIONAL ELEMENTARY EDUCATION LICENSURE

The Elementary Licensure Program prepares candidates to teach kindergarten through grade six. Through the sequence of courses and field experiences, the candidate satisfies all of Colorado's performance based standards for licensure in elementary education. Degree seeking Elementary Education Licensure candidates must choose from one of the following approved majors in order to complete the degree-seeking program in Elementary Education.

Behavioral Science

Biology

Chicano Studies

English

History

Human Development

Mathematics

Modern Languages-Spanish Concentration

Speech Communication-Speech, Language, and Hearing Sciences Concentration

The requirements of each major are designed to ensure that the program meets Colorado Licensure Standards and prepares candidates to pass the corresponding licensure content examination and to teach to the Colorado Model Content Standards for Elementary Education.

General Studies Requirements for Students Seeking Licensure in Elementary Education

Content area knowledge for elementary education is provided by the student's major, the additional required content courses, and by the specific general studies requirements listed below. In most cases the courses listed below may be applied towards MSCD's General Studies requirements. The footnotes contain information about the exceptions.

A student's major program may have some specific General Studies requirements/restrictions that must also be met to complete the baccalaureate degree. Students should consult with an advisor in their major about specific General Studies requirements and with an education advisor about possible changes in the courses below.

General Studies Courses

COURSES	SEMESTER HOURS
ENG 1010	Freshman Composition: The Essay
ENG 1020	Freshman Composition: Analysis, Research, and Documentation
MTH 1610	Integrated Mathematics I ¹
SPE 1010	Public Speaking ²
-or-	
SPE 1710	Interpersonal Communications ²
HIS 1210	American History to 1865 ³
-or-	
HIS 1220	American History since 1865 ³
ARTH 2100	An Integrated Approach to Art and Music (MUS 2040)
ENG 2460	Introduction to Children's Literature for Non-Majors 4

GEO	1000	World Regional Geography	
	-or-		
GEG	1920	Concepts and Connections in Geography	3
PSY	1800	Developmental Educational Psychology 5	3
SCI	2610	Integrated Natural Science I 6	3
SCI	2620	Integrated Natural Science II 6,7	3
Total General Studies 33			

- ¹ The Level I General Studies Mathematics requirement is waived for students with a major or minor in mathematics. Mathematics majors take MTH 1410 instead of MTH 1610 and their total for General Studies is 30 hours.
- ² Speech Communication majors must take SPE 1010.
- ³ History majors must take three extra credit hours at Level II in either Arts and Letters, Social Sciences, or Natural Science in lieu of three hours in the Historical category. The selected course may not have the HIS prefix or be crosslisted with a course with the HIS prefix.
- ⁴ English majors must select another Level II Arts and Letters General Studies course and take ENG 3461 instead of ENG 2460. The selected course may not have the ENG prefix or be crosslisted with a course with the ENG prefix.
- ⁵ Human Development majors must select another Level II General Sciences Social Sciences course other than SOC 1010, PSY 1800 or any other PSY course.
- ⁶ Biology majors must take CHE 1110, CHE 1150, and CHE 2100 instead of SCI 2610 and SCI 2620 and their total for General Studies is 37.
- ⁷ Speech Communication majors taking Option A of the Speech, Language, and Hearing Sciences Concentration take BIO 1080 and BIO 1090 instead of SCI 2620 and their total for General Studies is 34.

Professional Elementary Education Licensure Sequence

•	1
Additional Required Content Courses	
REQUIRED COURSES	SEMESTER HOURS
MTH 2620 Integrated Mathematics II	
MTL 3600 Mathematics of the Elementary Curriculum	
HPS 2130 Health and Physical Education for Elementa	ry Teachers
Total Required Additional Content	
Foundations	
REQUIRED COURSES	SEMESTER HOURS
EDT 3610 Applications of Educational Technology	
EDU 3000 Introduction to Education	
EDU 3200 Human Diversity: Applications to Multiculti	
RDG 3110 Foundations of Literacy Instruction in Grad	es P–6 3
SED 3600 The Exceptional Learner in the Classroom.	
Total Foundations	12
Integrated Methods	
REQUIRED COURSES	SEMESTER HOURS
EDU 3640 Basic Techniques of Instruction, Assessment	and Management 3
EDU 3650 Field Experience: Basic Techniques of Instru	
EDU 3660 Teaching Writing K-6 *	
EDU 4100 Integrated Methods of Teaching Social Studi	ies and Literacy: K-6 3
EDU 4105 Field Experience: Integrated Social Studies a	
RDG 4000 Literacy Instruction in Grades K-6	
EDU 4120 Integrated Methods of Teaching Science, He	alth and Mathematics: K-6 3
EDU 4125 Field Experience: Integrated Science, Health	and Mathematics: K-6 1
EDU 4190 Elementary Student Teaching and Seminar:	K-6
(Initial elementary licensure requires 12 hou	ırs student teaching)
Total Integrated	
Grand Total Licensure Sequence	49
* English major must substitute ENG 4650 for this course.	

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. The application form for the program must be completed by attending an Application Meeting scheduled through the Teacher Application Center (WC 136). Formal admission must be obtained BEFORE Integrated Methods coursework can be taken. Refer to the Provisional and Formal Admission section of this Catalog for more information about the necessary process.

Majors with Elementary Education Licensure

Candidates who wish to obtain Colorado Licensure in Elementary Education must earn a Bachelor of Arts (BA) degree in an approved content major. Candidates must choose a major from the following selections in order to fulfill licensure requirements for MSCD and the State of Colorado. Licensure candidates must consult an advisor in their selected major as well as one in education. To better support candidates in their major selections, eight-semester planned sequences for each of the licensure majors can be obtained inside the Teacher Application Center in West Classroom, Room 136.

Behavioral Science Major with Elementary Licensure

The Behavioral Science major is an interdisciplinary Social Sciences major. The foundation courses in the major provide a strong interdisciplinary approach and broaden candidates' knowledge in the social science areas of history, civics, human development, cultural diversity, and economics.

Behav	rioral So	cience Foundation Courses			
COURSES SEMESTER HOU					
ANT 1310 Introduction to Cultural Anthropology					
ECO	2010	Principles of Economics—Macro			
PSY	1001	Introduction to Psychology			
SOC	1010	Introduction to Sociology			
PSC	1010	American National Government			
HIS	1210	American History to 1865*			
	-or-				
HIS 1	220 Am	erican History since 1865*			
Found	lation To	ntal			
	-	1210 and HIS 1220 must be used to meet the General Studies Requirements for Elemen- 1 Licensure. The other course must be chosen here.			
Majoı	Elected	Focus and Upper Division Electives			
in ada and 1. divisi	lition to 2 credits	ust take a total of 24 credit hours of electives approved by a Behavioral Science advisor the Behavioral Science foundation courses. Candidates select 12 credits in a major focus from the Behavioral Science electives, nine credits in each of these groups must be upper ts for a total of 18 upper division credits. See an advisor in Behavioral Science before classes.			
Major Total .42 General Studies Total .33 Licensure Total .49 Grand Total .124					

Biology Major with Elementary Licensure

A candidate majoring in Biology and seeking Elementary Education Teacher Licensure will receive a broad, diverse education in the sciences with a focus in Biological Sciences. The Biology Major includes additional preparation in life sciences, botany, zoology, ecology, physiology and genetics (health content).

Biol	ogy Ma	ajor Fou	undation Courses
COURSES			SEMESTER HOURS
	BIO	1080	General Biology I
	BIO	1090	General Biology Laboratory I
	BIO	1081	General Biology II
	BIO	1091	General Biology Laboratory II
	BIO	2400	General Microbiology
	BIO	3600	General Genetics
	BIO	4850	Evolution
	BIO	4510	Microbial Ecology*
		-or-	•
	BIO	4540	Plant Ecology*
		-or-	•
	BIO	4550	Animal Ecology*
	Subto	tal	
	Upper Major Gener Licens Grand	Total Total al Studie ure Total	ajor Courses:
	Gener	al Studi	ies Exception for Biology Major with Elementary Licensure
	Studie	es requir	ajoring in Biology must take the following courses to fulfill the Natural Science General ement. Therefore, Biology majors do not have to take the Integrated Sciences courses CCI 2620) listed under the General Studies requirement for Elementary Education.
	COUI CHE CHE CHE	RSES 1100 1150 2100	Principles of Chemistry. 4 Principles of Chemistry Laboratory. 1 Introduction to Organic and Biological Chemistry 5

Chicano Studies Major with Elementary Licensure

Candidates with this major will have strength in history with five or six history courses including four or five in the major and one in General Studies. In particular, candidates will have a course in Colorado history, one that is pertinent to the Chicano Studies major and elementary school teachers. Candidates will also have strength in literacy with five English courses including three in the major and two in General Studies.

Chicano Studies Foundation Courses COURSES CHS 1000 CHS 1010 History of Meso-America: Pre-Columbian and Colonial Periods (HIS 1910) ... 3 CHS 1020 CHS 2010 CHS 3010 CHS 3100 CHS 3300 CHS 3460 3600 CHS CHS 4850

English Major with Elementary Licensure

mentary Education Licensure. The other course can be chosen here.

The English Major includes additional preparation in literature and composition. English is a major which will address the literacy standards by providing the candidate with additional preparation in language and literacy. The program provides candidates with a strong foundation in literature and literary genres; a solid perspective on the English language, including its history, structure, and development; and both theory and practice in composition, language arts, communication, and teaching methodology. The candidate will also be prepared to teach literature of various cultures, accommodate cultural and ethnic diversity in language and writing, and communicate effectively with a diverse population of candidates.

T itama	turno Co	***************************************		
Literature Courses COURSES SEMESTER HO				
		SEMESTER HOURS		
ENG		Introduction to Literary Studies		
ENG	2220	American Literature: Civil War to Present		
ENG	3100	Chaucer, Shakespeare, Milton		
ENG	3440	Myth, Symbol, and Allusion in Literature		
ENG		Children's Literature: Theory and Practice		
Subto	tal			
T	/Т	and the Comment		
_	_	eguistics Courses		
COUI		SEMESTER HOURS		
	2010	The Nature of Language		
ENG	3020	History of the English Language		
Subto	tal	6		
Writin	ng/Com	position Courses		
COUI	_	SEMESTER HOURS		
ENG	2500	Art and Craft of Writing		
	-or-			
ENG	2520	Introduction to Creative Writing		
ENG	3510	Advanced Composition		
Subto	tal	6		
Langu	ıage Art	s Courses		
COUI	RSES	SEMESTER HOURS		
ENG	4650	Teaching Composition in the Elementary School K-6		
ENG	4660	Teaching Literature and Language K-6 *		
Suhto	tal	6		

^{**} One of HIS 1210 and HIS 1220 must be used to meet the General Studies Requirements for Ele-

* Senior Experience course

SPE

2890

English Electives Two upper-division English courses selected in consultation	
with and approved by a designated English Advisor	6
Major Total	39
General Studies Total	
Licensure Total (EDU 3660 is not taken)	47
Grand Total	125
* Senior Experience course	

General Studies Exception for English Major with Elementary Licensure

Candidates majoring in English take ENG 3461 Children's Literature: Theory and Practice instead of ENG 2460 Children's Literature listed in General Studies requirements for Elementary Licensure. English majors must choose an additional Arts and Letters course to fulfill the General Studies requirements. The selected course may not have the ENG prefix or be crosslisted with a course with the ENG prefix.

History Major with Elementary Licensure

History is a broad, diverse study which addresses both world and United States history. Content is also provided in supporting disciplines such as economics, civics, and geography. The foundation courses in the major provide the candidate with the knowledge base to understand contemporary societal issues while drawing on experiences from the historical past.

History Foundation Courses			
COU	RSES	SEMESTER HOURS	
HIS	1010	Western Civilization to 1603	
HIS	1020	Western Civilization since 1603	
HIS	1210	American History to 1865	
HIS	1220	American History since 1865	
HIS	4820	Senior Seminar *	
Subtotal. .15			
History Electives – selected in consultation with and approved by a			
		designation History Advisor	
Major Total			
General Studies Total			
Licensure Total			
Grand Total .124			

General Studies Exception for History Major with Elementary Licensure

History majors must take three extra credit hours at Level II in either Arts and Letters, Social Sciences, or Natural Science in lieu of three hours in the Historical category. The selected course may not have the HIS prefix or be crosslisted with a course with the HIS prefix.

Human Development Major with Elementary Licensure

This interdisciplinary major in human development will provide students with a focus on the entire life span and in-depth knowledge about theory, research, and application in human development. Students will participate in field experiences to make connections between theory, research and practice.

Human Development Foundation Courses COURSES SEMESTER HOURS BIO 1000 **PSY** 1001 PSY 1800 SOC 1010 PSY 2310

PSY	3250	Child Psychology	3
PSY	3280	Developmental Research Methods	3
PSY	3340	Cognitive Development and Learning	3
SOC	3410	The Family in Transition	3
PSY	4960	Senior Thesis in Human Development 3	3
HPS	4500	Motor Learning and Development.	3
HES	3070	Parental Health Care Issues	
	-or-		
NUT	2040	Introduction to Nutrition	3
Electiv	e approv	ved by a Human Development advisor	3
Major	Total	$. \dots \dots$	2
		s Total	
Licens	ure Total	4	9
Grand	Total		1

- ¹ May not be used for General Studies requirements, see advisor.
- ² Students who have taken MTH 1210 or its equivalent and transfer before deciding to major in Human Development may substitute it for PSY 2310. MTH 1210 cannot be used for both the major and to satisfy the Level 1 General Studies Mathematics requirement.
- ³ Senior Experience courses

Mathematics Major with Elementary Licensure

The Department of Mathematical and Computer Sciences offers a major in Mathematical Sciences with a concentration in Mathematics Education. The goals of this program are to provide candidates with broad-based and coherent preparation in the various disciplines that constitute the mathematical sciences and the pedagogical knowledge of mathematics needed to begin a career as an elementary school teacher. Obtaining this degree, however, does not require that candidates obtain licensure to be an elementary school teacher. This concentration also prepares candidates for continued study of the mathematical sciences at the graduate level. Candidates are required to talk to a faculty advisor in the area of mathematics education as well as a teacher licensure advisor as they plan their academic program.

The mathematics major with Mathematics education concentration requires completion of the courses listed below with grades of "C" or better. A course taken more than ten years ago will need to be repeated unless the candidate can demonstrate current knowledge of the concepts of the course.

Mathematics Core Courses		
COURSES		
MTH 1410	Calculus I	
MTH 2410	Calculus II	
MTH 2420	Calculus III	
MTH 3100	Introduction to Mathematical Proofs	
Math Core To	tal	
Advanced Courses		
COURSES		
MTH 3110	Abstract Algebra	
MTH 3140	Linear Algebra*	
MTH 3210	Probability and Statistics	
MTH 3470	Introduction to Discrete Mathematics and Modeling	
MTH 3650	Foundations of Geometry	
MTH 4600	Seminar in Problem Solving	
MTH 4640	History of Mathematics**	
Advanced Math Total		
*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		

General Studies Exception for Mathematics Major with Elementary Licensure

The Level I General Studies Mathematics requirement is waived for students with a major or minor in mathematics. Mathematics majors take MTH 1410 instead of MTH 1610 and their total for General Studies is 30 hours.

Modern Language Major, Spanish Concentration with Elementary Licensure

The Modern Languages Major with Spanish concentration includes additional preparation to teach in bilingual classrooms. The Spanish concentration provides a strong multidisciplinary educational base in the language of Spanish, Spanish culture, and Spanish literature. Content is also provided in supporting disciplines such as economics, civics, geography, and music. The foundations courses in the major provide the candidate with the knowledge and skills to develop into language and literature specialists in a true arts tradition. This concentration requires 36 hours in Spanish and 6 hours of Hispanic topics.

Writt	en Com	munication Skills
COU		
SPA	2320	Spanish Grammar and Composition II
SPA	3140	Advanced Composition
SPA	4010	Advanced Spanish Writing and Grammar I
SPA	4020	Advanced Spanish Writing and Grammar II
Subto	tal	
Oral	Commu	nication Skills
COU		
SPA	2120	Spanish Reading and Conversation II
SPA	3110	Advanced Conversation
SPA		Spanish Phonetics: Theory and Practice
Subto	tal	9
Litera	ature	
COU		
SPA	3250	Introduction to Literary Studies in Spanish
SPA	3400	Survey of Spanish Literature I
	-or-	, 1
SPA	3410	Survey of Spanish Literature II
SPA	3510	Survey of Latin American Literature
Subto	tal	9
Cultu	ıre	
COU	RSE	
SPA	3200	Culture and Civilization of Spain
SPA	3210	Spanish-American Culture and Civilization
	-or-	•
SPA	3220	Folklore and Culture of the Mexican Southwest
Subto	tal	6

mispanic topi	
COURSE	SEMESTER HOURS
CHS 3100	The Chicana/o Community (SOC 3130)
CHS 1020	History of the Chicana/o in the Southwest-1810 to Present (HIS 1920)
Subtotal	
Major Total	42
General Studie	s Total
Licensure Total	l
Grand Total	

Speech Communication Major - Speech, Language, and Hearing Sciences Concentration, with Elementary Licensure

An emphasis in Speech, Language, and Hearing Sciences provides a sound background for candidates pursuing careers in education, health care, and vocational rehabilitation. Graduates in Speech, Language, Hearing Sciences who complete Option A 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 practice. Students who select Option B will gain additional practicum experience working with children who have speech, language and literacy needs in early childhood and elementary school settings.

......SEMESTER HOURS

Speech, Language, and Hearing Sciences Option A

COURSES

ENG	2010	The Nature of Language
BIO	2310	Human Anatomy and Physiology I
SPE	2530	Speech and Hearing Science
SPE	2890	Language Acquisition
SPE	3511	Anatomy and Physiology of Speech
SPE	3540	Phonetics and Phonological Awareness
SPE	3580	Speech Sound and Fluency Disorders
SPE	3600	Audiology I
SPE	3620	Aural Rehabilitation
SPE	4500	Principles of Assessment and Intervention
SPE	4510	Language Disorders
SPE	1500	Introduction to Communication Sciences
	-or-	
SPE	3760	Cultural Influences on Communication
0 1	+01	
Subto	ш	
		ourses (Select at least 5 hours)
Addit	ional Co	ourses (Select at least 5 hours)
Addit SPE	ional Co	Durses (Select at least 5 hours) Introduction to Communication Sciences
Addit SPE SPE	ional Co 1500 1610	Durses (Select at least 5 hours) Introduction to Communication Sciences
Addit SPE SPE SPE	ional Co 1500 1610 1620	Durses (Select at least 5 hours) Introduction to Communication Sciences
Addit SPE SPE SPE SPE	1500 1500 1610 1620 3610	Introduction to Communication Sciences 3 American Sign Language I 3 American Sign Language II. 3 Audiology II 2
Addit SPE SPE SPE SPE SPE	1500 1610 1620 3610 4550	Introduction to Communication Sciences
Addit SPE SPE SPE SPE SPE SPE SPE	1500 1610 1620 3610 4550 4551 4552	Introduction to Communication Sciences
Addit SPE SPE SPE SPE SPE SPE SPE Subto Major	1500 1610 1620 3610 4550 4551 4552 tal	Durses (Select at least 5 hours) Introduction to Communication Sciences 3 American Sign Language I 3 American Sign Language II. 3 Audiology II 2 Speech-Language Pathology Assistant Methods 4 Early Childhood Communication Assessment 3 Early Childhood Communication Intervention 1 quired for Option A 42
Addit SPE SPE SPE SPE SPE SPE SPE Subto Major	1500 1610 1620 3610 4550 4551 4552 tal	Durses (Select at least 5 hours) Introduction to Communication Sciences 3 American Sign Language I 3 American Sign Language II 3 Audiology II 2 Speech-Language Pathology Assistant Methods 4 Early Childhood Communication Assessment 3 Early Childhood Communication Intervention 1 5 5
Addit SPE SPE SPE SPE SPE SPE SPE Subto Major Gener	1500 1610 1620 3610 4550 4551 4552 tal	Durses (Select at least 5 hours) Introduction to Communication Sciences 3 American Sign Language I 3 American Sign Language II. 3 Audiology II 2 Speech-Language Pathology Assistant Methods 4 Early Childhood Communication Assessment 3 Early Childhood Communication Intervention 1 quired for Option A 42
Addit SPE SPE SPE SPE SPE SPE Subto Major Gener Licens	1500 1610 1620 3610 4550 4551 4552 tal Total re	Durses (Select at least 5 hours) Introduction to Communication Sciences 3 American Sign Language I 3 American Sign Language II. 3 Audiology II 2 Speech-Language Pathology Assistant Methods 4 Early Childhood Communication Assessment 3 Early Childhood Communication Intervention 1

Students planning to seek certification from the American Speech-Language-Hearing Association should take MTH 1210 Introduction to Statistics or PSY 2310 Introduction to Statistics, PSY 2210 Psychology of Human Development, and PHY 1000 Introduction to Physics or PHY 3620 Physics of Sound and Music.

General Studies Exception for Speech Communication Licensure with Option A of the Speech, Language, and Hearing Sciences Concentration

Students must take SPE 1010 instead of SPE 1710 and must take BIO 1080 and BIO 1090 instead of SCI 2620.

Speech, Language, and Hearing Sciences Option BSEMESTER HOURS **COURSES** SPE 1500 SPE 1610 SPE 2530 SPE 2890 SPE 3540 SPE 3590 SPE 4500 ENG 2010 THE 3200 Additional Courses (Select at least 9 hours) **COURSES**SEMESTER HOURS SPE 1620 SPE 1710 SPE 3580 SPE 3760 SPE 4551 SPE 4552 PSY 3340 RDG 3530 Foundations of Language and Literacy for English Language Learners ECE 3750 THE 4220

General Studies Exception for Speech Communication Licensure with Option B of the Speech, Language, and Hearing Sciences Concentration
Students must take SPE 1010 instead of SPE 1710.

Elementary Education Minor Only (Non-Licensure)

The Elementary Education Minor Only serves individuals who are interested in working with elementary aged children (ages 5-12) outside the K-6 classroom (e.g. recreation fields, summer camps, travel programs, after school enrichment programs, day care). The Elementary Education Minor Only does not meet licensure requirements. Elementary Education Minor Only students are required to meet the General Studies courses for their major, not for Elementary Education Licensure.

COURSES	
MTH 1610	Integrated Mathematics I *
- or-	
MTH 2620	Integrated Mathematics II

Elementary Education Post Baccalaureate

Admission requirements for Post Baccalaureate candidates seeking licensure include evidence of having at least a conferred Bachelor's degree and meeting the criteria for formal admission. Upon application to the Teacher Education Program, copies of official transcripts from the all the accredited colleges attended including the one where the candidate received the baccalaureate degree must be brought to the Teacher Application Center. The Elementary Education area advisors will review the transcript for completed course work appropriate for the elementary endorsement. Post baccalaureate candidates may need additional content courses (noted below). Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and take the licensure content exam at their earliest opportunity.

Elementary Education Post Baccalaureate Licensure

Conte	nt Cour	rses
PSY	1800	Developmental Educational Psychology
MTH	1610	Integrated Mathematics I
MTH	2620	Integrated Mathematics II
MTL	3600	Mathematics of the Elementary Curriculum
HPS	2130	Health and Physical Education for Elementary Teachers
SCI	2610	Integrated Natural Science I*
SCI	2620	Integrated Natural Science II*
ENG	2460	Introduction to Children's Literature for Non Majors*
* Maj	v be waiı	ved depending on previous course work/experience.
Found	dations	
COU	RSES	
EDT	3610	Applications of Educational Technology
EDU	3000	Introduction to Education
EDU	3200	Human Diversity: Applications to Multicultural Education
RDG	3110	Foundations of Literacy Instruction in Grades P–6
SED	3600	The Exceptional Learner in the Classroom
Total	Foundat	ions
Integr	rated Me	ethods
COU	RSES	SEMESTER HOURS
EDU	3640	Basic Techniques of Instruction, Assessment and Management
EDU	3650	Field Experience: Basic Techniques of Instruction, Assessment
		and Management
EDU	3660	Teaching Writing K-6
EDU	4100	Integrated Methods of Teaching Social Studies and Literacy: K-6
EDU	4105	Field Experience: Integrated Social Studies and Literacy: K-6
RDG	4000	Literacy Instruction in Grades K-6
EDU	4120	Integrated Methods of Teaching Science, Health and Mathematics: K-6 3
EDU	4125	Field Experience: Integrated Science, Health and Mathematics: K-6

^{*} These courses cannot be used to satisfy General Studies requirements.

EDU	4190	Elementary Student Teaching and Seminar: K-6	12
		(Initial elementary licensure requires 12 hours student teaching)	
Total 1	Integrate	d	29
Grand	Total	55-	64

PROFESSIONAL K-12 EDUCATION LICENSURE

Art Education Music Education Physical Education

K-12 Art, Music and Physical Education licensure candidates must consult an advisor in their selected major and one in education. To better support candidates in their major selections, eight-semester planned sequences for each of the licensure majors can be obtained inside the Teacher Application Center in West Classroom 136.

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. The application form for the program must be completed by attending an Application Meeting during the first semester of education course work. Application meetings are scheduled by the Teacher Application Center (WC 136). Formal admission must be obtained BEFORE Level II education coursework can be taken.

Art Education Major with Licensure for Degree-Seeking Candidates:

Coursework meeting K-12 teacher licensure standards for art is available with a BFA major in art. Canditates seeking licensure with a degree in Art other than a BFA may need to take additional coursework to meet licensure requirements. Candidates completing a BFA with licensure should ask for the Art Education concentration advising sheet. <u>Licensure candidates should consult an advisor in Art as well as one in Teacher Education.</u>

Specific Gene	eral Studies Requirements
COURSES	SEMESTER HOURS
ENG 1010	Freshman Composition: The Essay
ENG 1020	Freshman Composition: Analysis Research
SPE 1010	Public Speaking
MTH 1610	Integrated Mathematics I
EDS 3110	Processes of Education in Multicultural Urban Secondary Schools
EDS 3200	Educational Psychology Applied to Teaching
Other Genera	al Studies for Art Education candidates (see advisor for details)
General Studi	es Total
Foundation (Courses
COURSES	SEMESTER HOURS
ART 1101	Two Dimensional Design
ART 1141	Drawing I
ART 1501	Three Dimensional Design
ART 1531	Introduction to Digital Art and Design
ARTH 1600	World Art I: Art before 1200
ARTH 1700	World Art II: Art since 1200
Total Founda	tion Courses
Courses for t	he Concentration in Art Education
COURSES	SEMESTER HOURS
ART 2101	Color Theory and Practice
ART 2611	Ceramics I
ART 2651	Jewelry Design and Metalsmithing I
ART 2661	Painting I

ART 3661 ART 4261 ART 4661 Subtotal	Painting III 3 Painting IV 3 Painting V 3 15
Photography COURSES	SEMESTER HOURS
ART 2237	Constructing the Digital Image
ART 3271 ART 3671	Photography II: Black and White 3 Photography III: Color 3
ART 4271 ART 4671	Photography IV: Theory and Practice
	Photography V: Portfolio
Subtotat	
Printmaking	(select two of the following first three courses
COURSES	SEMESTER HOURS
ART 3281	Printmaking II: Lithography
-or-	
ART 3283	Printmaking II: Intaglio
-or-	
ART 3285 -Plus-	Printmaking II: Screenprinting
ART 3681	Printmaking III
ART 4281	Printmaking IV
ART 4681	Printmaking V
Subtotal	
Sculpture	
COURSES	SEMESTER HOURS
ART 3291	Sculpture II
ART 3691	Sculpture III
ART 4291	Sculpture IV
ART 4691	Sculpture V
	2s Total
	rurses
	Concentration Courses (includes licensure)
	*—see above
,	egree
	iphasis areas in Digital Art, Drawing, Painting, Photography, or Printmaking will
increase iotal J	from 124 to 127 for the degree.

Music Education Major with K-12 Licensure:

The music education degree program prepares students for careers teaching instrumental, choral, and general music at levels K-12. Students seeking this degree must satisfy all applicable requirements of the Department of Music and the School of Professional Studies teacher education program. <u>Licensure candidates should consult an advisor in Music as well as one in Teacher Education.</u>

Bachelor of Music Education

Core Requirements
Ensembles
Music Education Courses
Choral or Instrumental Concentration
General Studies
Total hours required

^{*}MUS 3320 must be taken concurrently with EDS 3110.

^{**}MUS 4320 must be taken concurrently with either MUS 4360 or MUS 4370.

Concentration

Select one of the following concentrations:

01	1.0	
Cho	ral Coi	ncentration: Voice Emphasis
MUS	1400	Vocal Diction I
MUS	161B	Class Piano I
MUS	162B	Class Piano II
MUS	261B	Class Piano III
MUS	262B	Class Piano IV
MUS	3520	Choral Conducting and Literature
MUS	372A	Private Voice VI
MUS	4420	Vocal Pedagogy
Subto	tal	
Char	ral Car	ncentration: Piano Emphasis*
		•
MUS	1400	Vocal Diction I
MUS	161A	Class Voice I
MUS	162A	Class Voice II
MUS	261B	Class Piano III**
	262B	Class Piano IV**
	3520	Choral Conducting and Literature
MUS	372B	Private Piano VI
	4420	Vocal Pedagogy
* Stud	lents wh	ose primary performance area is piano must enroll in at least eight hours of choral
ensem		
		ose primary performance area is piano may elect another area of study in place of class
piano;	however	r, they still must pass the Piano Proficiency Examination before enrolling in MUS 3520.
Cho	ral Cor	ncentration: Guitar Emphasis*
	1400	Vocal Diction I
MUS		
MUS	161A	Class Voice I
MUS	162A	Class Voice II
MUS	161B	Class Piano I
MUS	162B	Class Piano II
MUS	261B	Class Piano III
MUS	262B	Class Piano IV
MUS	3520	01 10 1 1 171
MUS		Choral Conducting and Literature
	4420	Vocal Pedagogy
Subto	tal	Vocal Pedagogy 2
Subton *Stud	tal ents who	Vocal Pedagogy
Subto	tal ents who	Vocal Pedagogy 2
Subton *Stud ensem	tal ents who bles.	Vocal Pedagogy
Subton *Studensem Instr	tal ents who bles.	Vocal Pedagogy
Subton *Stud ensem Instr MUS	tal ents who bles. rumen	Vocal Pedagogy
Subton *Stud ensem Instr MUS MUS	tal ents who bles. rumen 161A 162A	Vocal Pedagogy
Subton *Stud ensem Instr MUS MUS MUS	tal ents who bles. rumen 161A 162A 161B	Vocal Pedagogy
*Studensem Instr MUS MUS MUS MUS MUS	rumen 161A 162A 161B 162B	Vocal Pedagogy 2
Subton *Studensem Instr MUS MUS MUS MUS MUS	rumen 161A 162A 161B 162B 261B	Vocal Pedagogy 2
Subton *Studensem Instr MUS MUS MUS MUS MUS MUS	rumen 161A 162A 161B 162B 261B 262B	Vocal Pedagogy 2
Subton *Studensem Instr MUS MUS MUS MUS MUS MUS MUS	rumen 161A 162A 161B 162B 261B 262B 3430	Vocal Pedagogy 2
Subton *Stude ensem Instr MUS	rumen 161A 162A 161B 162B 261B 262B 3430 3480	Vocal Pedagogy 2
Subton *Stude ensem Instr MUS	rumen 161A 162A 161B 162B 261B 262B 3430 3480 3530	Vocal Pedagogy 2
Subtoi *Stude ensem MUS MUS MUS MUS MUS MUS MUS MUS MUS MUS	tal ents who bles. rumen 161A 162A 161B 162B 261B 262B 3430 3480 3530 3720	Vocal Pedagogy 2

Human Performance and Sport Major with

Physical Education K-12 Licensure:

Candidates who wish to obtain Colorado licensure for K-12 Physical Education must earn a Bachelor of Arts (BA) degree with a major in Physical Education. Physical Education majors are required to complete courses in: Professional activities (such as team sports, individual sports and games), the core curriculum (including Physical Education Methods, Anatomical Kinesiology, Exercise Physiology, and Motor Learning), as well as required licensure courses.

The core curriculum is designed to prepare candidates to pass the K-12 Physical Education Content Exam and to teach to the Colorado Model Content Standards for K-12 Education. <u>Licensure candidates need to meet with a K-12 Physical Education advisor as well as one in Teacher Education</u>.

Human Performance and Sport Major for Bachelor of Arts

K-12 Physical Education Concentration

General Studies (Required courses for K-12 Physical Education Licensure)

COUR	SES	
Arts a	nd Lette	rs
Comn	nunicati	ons
SPE	1010	Public Speaking
Comp	osition	
ENG	1010	Freshman Composition: The Essay
ENG	1020	Freshman Composition: Analysis, Research, and Documentation
Histor	rical	
Mathe	ematics	
MTH	1610	Integrated Mathematics I
Natura	al Sciene	***
BIO	1080	General Biology I
BIO	1090	General Biology I Laboratory
BIO	2310	Human Anatomy and Physiology I (counts as General Studies Exception) 4
BIO	2320	Human Anatomy and Physiology II(counts as General Studies Exception) 4

Social	Science	s
HES	1050	Dynamics of Health
EDS	3200	Educational Psychology Applied to Teaching
Multio	cultural	
EDS	3110*	Processes of Education in Multicultural Urban Secondary Schools
Subtot	al	
*EDS .	3110 mu	st be taken concurrently with EDS 3120
Cour	rses in	the HPS Major for K-12 Physical Education Licensure
COUR	RSES	
Profes	sional A	ctivity Courses (Required)
HSL	1020	Skills and Methods of Teaching Weight Training
HSL	1040	Skills and Methods of Teaching Activities for the Young Child
HSL	1050	Skills and Methods of Teaching Rhythms for the Young Child
Appro	ved HSL	elective appropriate for teaching secondary school
Total.		8
A. Ind	ividual S	Sports (4 credits required)
HSL	1010	Skills and Methods of Teaching Tumbling and Gymnastics
HSL	1200	Skills of Swimming, Water Safety and Water Exercise
HSL	1210	Skills and Methods of Teaching Archery, Track and Field, and Fitness
HSL	1220	Skills and Methods of Teaching Bowling, Golf and Recreational Activities 2
HSL	1230	Skills and Methods of Teaching Tennis, Pickleball and Badminton
HSL	1240	Skills and Methods of Teaching Wrestling and Personal Defense and Yoga 2
HSL	1400	Skills and Methods of Teaching Camping, Backpacking and Orienteering 2
Total.		4
B. Tea	m Sport	s (4 credits required)
HSL	1100	Skills and Methods of Teaching Team Handball, Lacrosse, and Basketball 2
HSL	1110	Skills and Methods of Teaching Soccer, Volleyball and Softball
HSL	1120	Skills and Methods of Teaching Basketball and Softball
HSL	1130	Skills and Methods of Teaching Flag Football, Field Hockey and Floor Hockey 2
HSL	1410	Skills and Methods of Teaching Teambuilding, Initiative and
		Ropes Course Activities
Total.		
C. The	eory Clas	
HPS	1600	Introduction to Human Performance and Sport
HPS	1623	Prevention and Care of Athletic Injuries
HPS	1640	Physical Fitness Techniques and Programs
HPS	2060	Emergency Rescue/First Responder & CPR
HPS	3000	Health Programs in Human Performance and Sport
HPS	3300	Anatomical Kinesiology
HPS	3340	Physiology of Exercise
HPS	3400*	Methods of Teaching Secondary Physical Education
HPS	3410*	Field Experience in Secondary Physical Education
HPS	3460	Measurement and Evaluation in Human Performance and Sport $\dots \dots \ 3$
HPS	3500**	, ,
HPS	3510**	1 , ,
HPS	4500	Motor Learning and Development
HPS	4620	Adapted Human Performance and Sport Activities
HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators
EDS		*Field Experiences in Multicultural Urban Secondary Schools
RDG	3280	Teaching Literacy Skill Development in the Content Areas
EDT	3610	Applications of Educational Technology
EDU	4190	Student Teaching and Seminar: Elementary K-6
EDS	4290	Student Teaching and Seminar: Secondary 7-12

Approved Elective	
Subtotal	62
*HPS 3400 and HPS 3410 must be taken concurrently.	
**HPS 3500 and HPS 3510 must be taken concurrently.	
***EDS 3110 must be taken concurrently with EDS 3120	
General Studies Total	
Major Total	
Total Minimum Hours for K-12 Physical Education Major	

Art Education Post-Baccalaureate Licensure:

Coursework meeting K-12 teacher licensure standards for art is available through the Art Department. Candidates seeking licensure only must have a previous BFA in Art. Candidates seeking licensure with a degree in Art other than a BFA may need to take additional coursework to meet licensure requirements. Consult an Art education advisor at your earliest opportunity to have your transcripts reviewed.

Admission requirements for post-baccalaureate candidates seeking licensure include evidence of having a conferred Bachelor's degree in the licensure subject area, and meeting the criteria for formal admission. Upon application to the Teacher Education Program, an official transcript from the accredited colleges where the candidate attended, including the one granting the baccalaureate degree, must be brought to the Teacher Application Center (WC 136). The appropriate content area advisors will review the transcript for completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and take the licensure content examination as soon as possible.

COURSES			
ART 3601	Introduction to Art Education		
ART 3605	The Inclusive Music and Art Classroom (MUS 3390)		
ART 4201	Art Methods: K-12		
ART 4703	Student Teaching and Seminar: Elementary K-6*		
ART 4704	Student Teaching and Seminar: Secondary 7-12*		
EDS 3110	Processes of Education in Multicultural Urban Secondary Schools 3		
EDS 3120	Field Experiences in Multicultural Urban Secondary Schools		
EDS 3200	Educational Psychology Applied to Teaching		
MTH 1610	Integrated Mathematics		
RDG 3280	Teaching Literacy Skill Development in the Content Areas		
Licensure Total			
Highly Recommended:			
ARTH 3300	Art and Cultural Heritage		
ART 1531	Introduction to Digital Art and Design**		
Grand Total .			

^{*}Student teaching is composed of daily full-time work during 16 weeks, 8 weeks each of elementary and secondary levels. These courses are dual listed with EDU 4190 and EDS 4290.

Candidates must achieve a satisfactory score on the state licensure Art Content prior to applying for student teaching.

Post-Baccalaureate in K-12 Music Licensure

Post-baccalaureate students seeking K-12 licensure with a major other than music education may need to take additional courses to meet licensure content standards. Please meet with a music education

^{**}Technology proficiency: Current BFA candidates must take ART 1531 Introduction to Digital Art and Design, as part of their coursework. This course is also required for post-baccalaureate candidates who did not take an equivalent course as part of their degree.

advisor at your earliest opportunity to determine your requirements and take the licensure content test as soon as possible.

Admission requirements for Post-Baccalaureate candidates seeking licensure include evidence of having a conferred Bachelor's degree in the licensure subject area, and meeting the criteria for formal admission. Upon application to the Teacher Education Program, an official transcript from the accredited colleges where the candidate attended, including the one granting the baccalaureate degree, must be brought to the Teacher Application Center (WC 136). The appropriate content area advisors will review the transcript for completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and take the licensure content examination as soon as possible.

Post-Baccalaureate K-12 Physical Education Teacher Licensure

Admission requirements for Post-Baccalaureate candidates seeking licensure include evidence of having a conferred Bachelor's degree in the licensure subject area, and meeting the criteria for formal admission. Upon application to the Teacher Education Program, an official transcript from the accredited colleges where the candidate attended, including the one granting the baccalaureate degree, must be brought to the Teacher Application Center (WC 136). The appropriate content area advisors will review the transcript for completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional licensure sequence course work, as part of their approved teacher preparation program. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and take the licensure content examination as soon as possible.

Conte	ent Area	
COUI	RSES	
BIO	1080	General Biology I (Fall, Spring, Summer)
BIO	1090	General Biology Laboratory I (Fall, Spring, Summer)
BIO	2310	Human Anatomy and Physiology I (Fall, Spring, Summer)
BIO	2320	Human Anatomy and Physiology II (Fall, Spring, Summer)
HPS	1640	Physical Fitness Techniques and Programs
HPS	3340	Physiology of Exercise (Fall, Spring)
Conte	nt Total	
Morro	mant Ex	ploration
COU		SEMESTER HOURS
HSL	1040	Skills and Methods of Teaching Activities for the Young Child
	-or-	
HSL	1050	Skills and Methods of Teaching Rhythms for the Young Child
Move	ment Toi	tal
Team	Sports	(minimum 4 credits)
COUI	RSES	
HSL	1100	Skills and Methods of Teaching Handball and Lacrosse
HSL	1110	Skills and Methods of Teaching Soccer, Volleyball and Softball
HSL	1120	Skills and Methods of Teaching Basketball and Softball
HSL	1130	Skills and Methods of Teaching Flag Football, Field Hockey and Floor Hockey 2
HSL	1410	Skills and Methods of Teaching Teambuilding, Initiative
		and Ropes Course Activities
Team	Sports	4
Indiv	idual Sn	orts (minimum 4 credits)
		orts (minimum 4 credits) SEMESTER HOURS
Indiv COUI HSL		SEMESTER HOURS Skills and Methods of Teaching Tumbling and Gymnastics or

HSL	1210	Skills and Methods of Teaching Archery and Track & Field, and Fitness or 2
HSL	1220	Skills and Methods of Teaching Badminton, Golf and Recreational Activities or . 2
HSL	1230	Skills and Methods of Teaching Tennis, Pickleball and Badminton or
HSL	1240	Skills and Methods of Teaching Wrestling, Personal Defense and Yoga or 2
HSL	1400	Skills and Methods of Teaching Camping, Backpacking and Orienteering 2
Invivio	lual Spoi	rts
Licens	ure Seq	uence
COUR	SES	SEMESTER HOURS
EDS	3110*	Processes of Education in Multicultural Urban Secondary Schools 3
EDS	3120*	Field Experience in Multicultural Urban Secondary Schools
EDS	3200	Education Psychology Applied to Teaching (courted in General Studies) 3
HPS	3400**	Methods of Teaching Secondary Physical Education
HPS	3410**	Field Experience in Secondary Physical Education
HPS	3500***	*Methods of Teaching Elementary Physical Education
HPS	3510***	Field Experience in Elementary Physical Education
HPS	4500	Motor Learning and Development
HPS	4620	Adaptive Physical Education
EDT	3610	Applications of Educational Technology
RDG	3280	Teaching Literacy Skill Development in the Content Areas
MTH	1610	Integrated Mathematics
EDU	4190	Student Teaching and Seminar: Secondary K-5 6
EDS	4290	Student Teaching and Seminar: Secondary 6-12 6
*EDS .	3110 mu	st be taken concurrently with EDS 3120
**HPS	3400 an	nd HPS 3410 must be taken concurrently.
***HP	S 3500 a	nd HPS 3510 must be taken concurrently.
Licensi	ure Total	47
Cuand	Total	74.75

PROFESSIONAL SECONDARY EDUCATION LICENSURE

Majors with Secondary Education Licensure

English

Mathematics

Modern Languages (French, Spanish and or German)

Science (Biology, Chemistry, or Environmental Science)

Social Studies (African and African American Studies, Behavioral Science, Chicano Studies, Economics, History, or Political Science)

The Secondary Education Program offers professional preparation for teaching and education-related careers in collaboration with the Educational Technology, and Special Education Programs and various academic major departments. This program prepares candidates to apply to the Colorado Department of Education for initial teacher licensure to teach in secondary schools (7-12 grades) with endorsements in: English, Mathematics, Modern Languages (French, Spanish, German) Science (Biology, Chemistry, Environmental Science), or Social Studies (African and African American Studies, Behavioral Science, Chicano/a Studies, Economics, History, and Political Science)

All secondary candidates must consult two advisors, one in secondary education and one in their major (i.e. content) area. Secondary education candidates seeking teacher licensure in English, Math, or Modern Languages major must meet with an advisor in those specific academic areas. Secondary education candidates seeking Science or Social Studies must choose an approved academic major (Biology, Chemistry, or Environmental Science) or (African and African American Studies, Behavioral Science, Chicano Studies, Economics, History, or Political Science). Post-Baccalaureate candidates may receive approval for a major in a closely related field.

The following general studies courses fulfill the general course requirements for MSCD and the Teacher Education Program for degree-seeking candidates. Post-baccalaureate candidates need to fulfill some

general studies requirements and may need additional content area course. See the Post-Baccalaureate information at the end of the Secondary Licensure section, pgs. 350-351.

General Studies Requirements:

COUR	RSES	SEMESTER HOURS	
ENG	1010	Freshman Composition: The Essay	
ENG	1020	Freshman Composition: Analysis, Research and Documentation	
SPE	1010	Public Speaking	
MTH	1610*	Integrated Mathematics I	
XXX	XXXX	General Studies History	
XXX	XXXX	General Studies Arts & Letters	
XXX	XXXX	General Studies Social Sciences met in licensure	
XXX	XXXX	General Studies Natural Sciences	
Gener	General Studies Total		
*Scien	*Science and math licensure candidates may not be required to take MTH 1610. Consult an advisor.		

Secondary Education Licensure Sequence:

The following courses fulfill a licensure candidate's education courses for state licensure including the requirements for a minor required for the bachelor's degree. <u>All secondary licensure candidates must take methods of teaching in the content area, in addition to these licensure requirements. These are listed in the major for English, Math, Science, and Modern Languages, and below for all Social Sciences.</u>

COURSES		SEMESTER HOURS
EDS	3110	Processes of Education in Multicultural Urban Secondary Schools*1
EDS	3120	Field Experience in Multicultural Urban Secondary Schools ¹
EDT	3610	Applications of Educational Technology
EDS	3200	Educational Psychology Applied to Teaching* (corequisite of EDS 3110, 3120)3
SED	3600	The Exceptional Learner in the Classroom
RDG	3280	Teaching Literacy Skill Development in the Content Areas
EDS	3210	Standards-Based Curriculum, Assessment, and Classroom Management
		in the Secondary School ²
EDS	3220	Field Experience in Standards-Based Teaching, Assessment and
		Management in the Secondary School ²
EDS	4290	Student Teaching and Seminar: Secondary 7-12**
Licensure Total***		

^{1,2}These courses must be taken concurrently. Math teacher candidates are recommended to take MTL 3630 and MTL 3638 concurrently with EDS 3210 and EDS 3220 during the semester before student teaching.

**Mathematics Secondary Licensure Course Exception:

Math candidates take MTL 4690 Student Teaching and Seminar: Secondary 7-12 instead of EDS 4290 (12 credits). Additional required licensure courses found in the mathematics major.

***Additional Licensure Requirement for Secondary Social Sciences:

HIS 4010	Methods of Teaching Social Sciences
Licensure Tot	al
History and I	Behavioral Science Secondary Licensure meet this requirement in their major, the other
Licensure sect	tions (African American Studies, Chicano Studies, Economics, and Political Science) it is
an additional	course under the Licensure requirements.

Majors with Secondary Education Licensure

The following major advising guides are prepared to assist candidates in choosing an appropriate major for Secondary Education. Candidates must choose a major from the following selections in order to ful-

^{*}EDS 3110 and EDS 3200 (6 hours total) can be counted as General Studies courses in Social Science, but will require substitutions in the minor if the total credits in the minor falls below 18 credits. See an education advisor to see if this applies in your program.

fill licensure requirements for MSCD and the state of Colorado. The advising guides are not substitutes for meeting with academic advisors. Licensure candidates must consult an advisor in their selected major and one in education. To better support candidates in their major selections, eight-semester planned sequences for each of the licensure majors can be obtained inside the Teacher Application Center in West Classroom, Room 136.

Candidates seeking teacher licensure must also gain admission to the Teacher Education Program. The application form for the program must be completed by attending an Application Meeting scheduled through the Teacher Application Center (WC 136). Formal admission must be obtained BEFORE Level II education coursework can be taken. Refer to the Provisional and Formal Admission section of this catalog for more information about the necessary process.

Secondary English Licensure

The secondary education concentration in English, offered in conjunction with the licensure program, prepares degree seeking, future secondary teachers of English to understand and teach the diverse subject matter required for licensure. This program equips students with a wide variety of language principles and skills; practical experience in developing and teaching the processes of writing; sound knowledge of approaches to literature and literary genres; periods and authors (including a special focus on young adult literature); and an understanding of communication and media as used in English studies. In addition to meeting specified state and departmental requirements, this program offers students the opportunity to develop further specialization in writing, language, or literature to complement the major. The major provides student with a background in the Colorado K-12 Model Content Standards for English and prepares them to pass the required content exam for licensure.

English Major

Literature Co	re
COURSES	
ENG 2100	Introduction to Literary Studies
ENG 2210	American Literature: Beginnings - Civil War
-or-	
ENG 2220	American Literature: Civil War - Present
ENG 3100	Chaucer, Shakespeare, Milton
ENG 3440	Myth, Symbol, and Allusion in Literature
ENG 3470	Young Adult Literature
Literature Cor	re Total
Language/ Li	nguistics Core
COURSES	
ENG 2010	The Nature of Language
ENG 3020	History of the English Language
Language Ling	guistics Core Total6
Composition	Core
COURSES	
ENG 2500	The Art and Craft of Writing
ENG 3510	Advanced Composition
Composition (Core Total
Teaching Eng	lish Core
COURSES	
ENG 4600	Teaching Literature and Communication, 7-12
ENG 4620	Teaching Composition, 7-12
ENG 4640	Teaching English, 7-12 (Senior Experience)
Teaching Core	Total

Upper Level Electives	
Three upper division English courses (3000 or 4000 level) selected in consultation with and	
approved by designated English advisor	9
Major Total	5
General Studies Total	7
Licensure Total	4
General Electives	4
Grand Total	C

Mathematics Major with Secondary Mathematics Licensure

The Department of Mathematical and Computer Sciences offers a major in Mathematical Sciences with a concentration in Mathematics Education. The goals of this program are to provide degree seeking candidates with: (1)broad-based and coherent preparation in the various disciplines that constitute the mathematical sciences and; (2)the pedagogical knowledge of mathematics needed to begin a career as a middle or high school mathematics teacher. This concentration also prepares candidates for continued study of the mathematical sciences at the graduate level. Candidates are required to meet with one or more of the faculty advisors in the area of mathematics education as well as a teacher licensure advisor as they plan their academic program. 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 you can demonstrate current knowledge of the concepts of the course.

Mathematics	Core Courses
COURSES	
MTH 1410	Calculus I
MTH 2410	Calculus II
MTH 2420	Calculus III
MTH 3100	Introduction to Mathematical Proofs
Subtotal	
Advanced Ma	thematics Courses
COURSES	
MTH 3110	Abstract Algebra
MTH 3140*	Linear Algebra
MTH 3210	Probability and Statistics
MTH 3470	Introduction to Discrete Mathematics and Modeling
MTH 3650	Foundations of Geometry
MTH 4600	Seminar in Problem Solving
MTH 4640**	History of Mathematics
Subtotal	22
*MTH 3130 a	and one of the following (MTH 4110 or MTH 4150 or MTH 4410 or MTH 4660) may
substitute for l	MTH 3140. **Senior Experience Course
Computer Sci	ience Course
COURSE	
CS 1050	Computer Science I -or-
CSS 1247	Introduction to Programming: Visual Basic, -or-
MTH 1510	Computer Programming: FORTRAN
Subtotal	4
Additional Li	censure Requirements
COURSE	
MTL 3620	Mathematics of the Secondary Curriculum
MTL 3630*	Teaching Secondary Mathmatics

**General Studies Exception for Math Major with Secondary License:

Math majors do not take MTH 1610 for licensure. See a math advisor to determine the appropriate general studies course.

Modern Languages Major with Secondary Language Licensure

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Foreign Language must earn a Bachelor of Arts (BA) degree in Modern Languages. Candidates must complete 42 hours in their language concentration (French, German, or Spanish). Alternately, candidates may choose to complete 42 hours in a primary language and take an additional 18 hours at the 2000 level or above in a different secondary language for a total of 60 hours. The curriculum focuses on the Colorado Model Content Standards for Foreign Languages and prepare licensure candidates to pass the required content test.

OPTION I for French Concentration

	Frenc	h Conce	entration Courses (42 hours for ONE language; 60 hours for TWO languages)
	COUF	RSES	SEMESTER HOURS
	FRE	2010	Intermediate French I
	FRE	2020	Intermediate French II
	FRE	2110	French Reading and Conversation
	FRE	3010	Introduction to Advanced French Studies
	FRE	3110	Survey of French Literature I
	FRE	3120	Survey of French Literature II
	FRE	3150	French Phonetics: Theory and Practice
	FRE	3310	Advanced French Composition and Grammar
	FRE	3320	Advanced Conversation
	FRE	3550	French Historical Perspectives
	FRE	3560	Contemporary Sociocultural Issues
	MDL	4960	Teaching Foreign Languages in the Secondary Schools*
	Select	any two	o of the following:
	FRE	4520	Modern French Theater
	FRE	4530	The French Novel
	FRE	4750	Senior Seminar in French Studies
	Option	n I Frenc	ch Total
	Major	Total .	
			es Total
	Licens	ure Tota	ıl
	Electiv	ves	
	Grana	l Total .	
OP7	ΓΙΟΝ Ι	I for Fr	ench Concentration
	Spani	sh Seco	ndary Language
	COUF		
	SPA	2110	Spanish Reading and Conversation I
	SPA	2120	Spanish Reading and Conversation II

			Spanish Grammar and Composition I Spanish Grammar and Composition II ves (Upper Division) Secondary Language	3 6
	Germa COUR GER GER GER	2110 2120	ndary Language SEMESTER HOUR German Reading and Conversation German Civilization German Vocabulary Building and Grammar	3
		an Electi	German Composition and Free Writing	6
	Major Genera Licens	al Studie ure Tota	French 6 Includes French and either Spanish or German). 6 Is Total 2 I 3 12	7
ОРТ	ION I	for Ger	man Concentration	
	Germ:		tentration Courses (42 hours for ONE language; 60 hours for TWO languages): SEMESTER HOUR	
	MDL Option Major Genera Licens Electiv	4200 4210 ves Co 4960 n I Germ Total . al Studie ure Tota	German Reading and Conversation German Civilization German Vocabulary Building and Grammar German Composition and Free Writing German Phonetics: Theory and Practice Survey of German Literature I Survey of German Literature II Contemporary German Writers Advanced German Grammar Major German Authors Advanced Conversation: Present-day Germany onsult advisor for specifics Teaching Foreign Languages in the Secondary Schools an Total 4 5 Total 2 1 3 11	3 3 3 3 3 3 3 3 6 3 2 2 7 4 7
ODT	TONT	I for Co	mman Componentian	

OPTION II for German Concentration

This Modern Languages major option requires 60 hours in any TWO modern languages. In addition to the 42 hours in the emphasized language, candidates must take at least 18 hours at the 2000 level or above in a second language.

Spanish Secondary Language

COURSES		
SPA	2110	Spanish Reading and Conversation I
SPA	2120	Spanish Reading and Conversation II
SPA	2310	Spanish Grammar and Composition I
SPA	2320	Spanish Grammar and Composition II
Spanish Electives (Upper Division)		
Total Spanish Secondary Language		

		dary Language
COU		
FRE	2010	Intermediate French I
FRE	2020	Intermediate French II
FRE	2110	French Reading and Conversation
FRE	3010	Introduction to Advanced French Studies
		res (Upper Division)
Iotal	French S	econdary Language
Optio	on II for	German
Majo	r Total (I	ncludes German and either Spanish or French)60
Gene	ral Studie	es Total
Licen	sure Tota	134
Gran	d Total .	
PTION	I for Spa	unish Concentration
	_	centration Courses (42 hours for ONE language; 60 hours for TWO languages):
COU		
SPA	2110	Spanish Reading and Conversation I
SPA	2110	Spanish Reading and Conversation II
SPA	2310	Spanish Grammar and Composition I
SPA	2310	Spanish Grammar and Composition II
SPA	3110	Advanced Conversation
SPA	3140	Advanced Conversation
SPA	3150	Spanish Phonetics: Theory and Practice
SPA	3200	Culture and Civilization of Spain
SIA	-or-	Culture and Civilization of Spain
SPA	3210	Spanish-American Culture and Civilization
SIA	-or-	Spanish-American Culture and Civilization
SPA	3220	Folklore and Culture of the Mexican Southwest
SPA	3250	Introduction to Literary Studies in Spanish
SPA	3400	Survey of Spanish Literature I
0171	-or-	ourvey of opamism Encruture 1
SPA	3410	Survey of Spanish Literature II
SPA	4010	Advanced Spanish Writing and Grammar I
SPA	4020	Advanced Spanish Writing and Grammar II
SPA	4110	Contemporary Spanish Literature
0111	-or-	Contemporary opanion Electuates
SPA	4120	Masterpieces of Latin American Literature
MDL	4960	Teaching Foreign Languages in the Secondary Schools
Optio	on I Spar	iish Total
		42
		es Total
		1
JY IIUN	11 10r Sp	anish Concentration
his Mod	ern Lan	guages major option requires 60 hours in any TWO modern languages. In addition
		the emphasized language, candidates must take at least 18 hours at the 2000 level of
bove in a	second	language.
Fren	ch Secon	dary Language
COU	RSES	
FRE	2010	Intermediate French I
FRE	2020	Intermediate French II
EDE	2110	French Reading and Conversation 3

FRE	3010	Introduction to Advanced French Studies	3
Frenc	h Electiv	ves (Upper Division)	6
		econdary Language	
Germ	an Seco	ndary Language	
COU	RSES	SEMESTER HOUR	S
GER	2110	German Reading and Conversation	3
GER	2120	German Civilization	
GER	2310	German Vocabulary Building and Grammar	3
GER	2320	German Composition and Free Writing	3
		ives (Upper Division)	
Total	German	Secondary Language1	8
Optio	n II for	Spanish	
Majoi	· Total (1	ncludes Spanish and either French or German)6	60
		es Total	
Licens	ure Tota	d	34

Majors with Secondary Education Science Licensure Biology Major with Secondary Science Licensure

Candidates who wish to obtain Colorado licensure for Secondary Science Education with a major in Biology must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Biology major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Biology education program meets the Colorado Science Licensure Standards and addresses the objectives of the Science content area examination. The core curriculum adds a firm foundation in Physics, Chemistry, Earth-Space Science, Environmental Science, and Mathematics. The Colorado K-12 Model Content Science Standards are strongly emphasized in the curriculum. The core curriculum is supported by the depth of the major in Biology.

Biology Major		
COUF	RSES	
BIO	1080	General Biology I
BIO	1090	General Biology Laboratory I
BIO	1081	General Biology II
BIO	1091	General Biology Laboratory II
BIO	2400	General Microbiology
BIO	3050	Cell and Molecular Biology
BIO	3230	Principles of Anatomy and Physiology
BIO	3550	Urban Ecology
BIO	3600	General Genetics
BIO	4850	Evolution
SCI	3950	Methods of Teaching Science
Biolog	y Total	
4:LL A	ional Ca	ontent Course Requirements for Science Licensure
		edit hours)
PHY		College Physics I
PHY	2010	College Physics II
PHY	2030	College Physics I Laboratory
PHY	2040	College Physics II Laboratory
Гнузиз 10ш		
Chem	istry (10	credit hours)
CHE	1100	Principles of Chemistry
CHE	1150	Principles of Chemistry Laboratory

CHE	2100	Introduction to Organic and Biological Chemistry
Chemi	istry Tota	al
Earth	Space Sc	cience
GEL	1030	Historical Geology
GEG	1100*	Introduction to Physical Geography
		7-12
*GEL	1010-4	(General Geology) and MTR 2400-4 (Introduction to Atmospheric Science) may be of GEG 1100; however, this increases total hours by 5 hours.
Mathe	matics	(4 credit hours)
MTH	1400	Pre-Calculus (substitutes for MTH 1610 in General Studies)
		4
Major	Total (I	ncludes SCI 3950) (Includes MTH 1400)
Generi	al Studie	rs Total (Natural Science met in requirements,
		MTH 1610 substituted in major)
Licens	ure Total	l34

General Studies Exception in Biology Secondary Education:

Biology licensure candidates do not have to take MTH 1610 as it is replaced by MTH 1400, also Natural Science General Studies requirements are met with the required courses in Chemistry and Physics.

Chemistry Major with Secondary Science Licensure

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Science Education with a major in Chemistry must earn a Bachelor of Arts (BA) degree. Included in the requirements for the Chemistry major with a concentration in Secondary Science teaching is a core curriculum designed to ensure that the Chemistry education program meets the Colorado Science Licensure Standards and addresses the objectives of the General Science content area examination. The core curriculum adds a firm foundation in Biology, Physics, Earth-Space Science, Environmental Science, and Mathematics. The Colorado Model Content Science Standards are strongly emphasized within the curriculum. The core curriculum is supported by the depth of the major in Chemistry.

Required Courses

General Studies

COURSES MTH 1410 General Stud	Calculus I (Substitutes for MTH 1610)
Licensure	Mala I cm li o
SCI 3950	Methods of Teaching Science
	lits
Licensure Tot	al37
Chemistry M	
COURSES	
CHE 1800	General Chemistry I
CHE 1810	General Chemistry II
CHE 1850	General Chemistry Laboratory
CHE 3000	Analytical Chemistry
CHE 3010	Analytical Chemistry Laboratory
CHE 3100	Organic Chemistry I
CHE 3110	Organic Chemistry II
CHE 3120	Organic Chemistry I Laboratory
CHE 3130	Organic Chemistry II Laboratory
CHE 3190	Survey of Physical Chemistry
CHE 3200	Survey of Physical Chemistry Lab
CHE 3400	Chemical Literature Search

CHE	4310	Biochemistry I
CHE	4350	Biochemistry Laboratory
Total (Chemistr	y courses
Additi	ional Co	urse Requirements for General Science Licensure = 29-34 credit hours
Physic	s:	
COUR	SES	
PHY	2010	College Physics I
PHY	2020	College Physics II
PHY	2030	College Physics I Laboratory
PHY	2040	College Physics II Laboratory
Physic	s Total	
Biolog	y:	
COUR		
BIO	1080	General Biology I
BIO	1090	General Biology Laboratory I
BIO	1081	General Biology II
BIO	1091	General Biology Laboratory II
Biolog	y Total	8
Earth	Science:	(7-12 hours)
COUR	SES	
GEL	1030	Historical Geology
		Introduction to Physical Geography
		otal
		General Geology) and MTR 2400-4 (Introduction to Atmospheric Science) may be
taken	instead o	f GEG 1100; however, this increases total hours by 5 hours.
Enviro	nmenta	Science: (3 hours)
COUR	SES	
ENV	1200	Introduction to Environmental Science
Enviro	nmental	Science Total
Major	Total	
-		s Total (includes MTH 1410 replacing MTH 1610)22
		(Includes SCI 3950-3)
Grand	Total	

Environmental Science Major with Secondary Science Licensure

Degree seeking candidates who wish to obtain Colorado licensure for Secondary Science Licensure with a major in Environmental Science must earn a Bachelor of Arts (BA) 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-Space Science, and Mathematics. The Colorado Model Content Standards for Science are also strongly emphasized within the curriculum.

General Studies		
COURSES		
MTH 1400	Precalculus Mathematics (substitute for MTH 1610)	
General Studies	Total (Natural Science met in course requirements)	
Licensure		
SCI 3950	Methods of Teaching Science	
Licensure credits	5	
Licensure Total		

Majors with Social Studies Licensure

Candidates who wish to obtain Colorado Licensure for Secondary Social Studies must earn a Bachelor of Arts (B.A.) degree in one of the following disciplines: History, Political Science, Economics, Behavioral Science, Chicano Studies, or African American Studies. In addition to course requirements in the major, all Social Studies licensure candidates must complete a core curriculum that provides a foundation in History, Geography, Political Science, Economics, and Behavioral Science and prepares them to pass the appropriate Social Studies Content examination. The core curriculum is supported by courses in the major.

African American Studies Major with Secondary Social Studies Licensure

The African American Studies major will provide candidates with a comprehensive understanding of African heritage in this country through examination of African links; the contributions of African American people in the growth and development of the United States; African American community, culture, lifestyles, political activity, religious development, community service and resource assistance; as well as the prognosis and potential for social change.

African American Studies Required Courses: COURSES SEMESTER HOURS		
AAS 1010 AAS 4850	Introduction to African American Studies 3 Research Seminar in African American Studies 3	
History cour	rses in the major SEMESTER HOURS	
AAS 1130 AAS 3570 AAS 3580	Survey of African History (HIS 1940)3African American History I (HIS 3570)3African American History II (HIS 3580)3	
Sociology co	ourses in the major SEMESTER HOURS	
AAS 2000 AAS 3300	Social Movements and the Black Experience (SOC 2000)	
	course in the major	
COURSES AAS 3700	Psychology of Racism and Group Prejudice (PSY 3700)	
	ence course in the major	
COURSES AAS 3910	African Politics and Government (PSC 3910)	
	manities course in the major	
COURSES AAS 3310	African Art: (ARTH 3310) SEMESTER HOURS 3	
AAS 3330 -or-	Egyptian Art(ARTH 3330)	
AAS 3240	African American Literature (ENG 3240)	
Additional Course Requirements for Secondary Social Studies:		
History Cor COURSES	e:	
HIS 1010 -or-	Western Civilization to 1715 or 1603	
HIS 1030 HIS 1040	World History to 1500 3 World History since 1500 3	

HIS	1210	American History to 1865
HIS	1220	American History since 1865
Subto	tal	
D 1'.'	10:	
	cal Scienc	
COUL		SEMESTER HOURS
PSC	1010	American National Government
PSC	1020	Political Systems and Ideas
Subto	tal	6
Econo	mics:	
COU	RSES	
ECO	2010	Principles of Economics - Macro
ECO	2020	Principles of Economics - Micro
	-or-	•
ECO	3200	Economic History of the U.S
Subto	tal	
Cana		
Geogr		
	1920	
	3000	Concepts and Connections in Geography 3 Historical Geography of the U.S. 3
		ristorical Geography of the U.S
Subio	ш	
Addit	ional Lic	ensure Requirement for Secondary Social Sciences
HIS 4	010 Meth	nods of Teaching Social Sciences
Total	A ddition.	al Course Requirements
		Requirements
		requirements
		(Includes HIS 4010)
		(Includes Fils 4010)
Grant	ı 101111	

Behavioral Science Major with Secondary Social Studies Licensure

This is a distributed major, offering students a structured overview of the social sciences (Anthropology, Economics, History, Political Science, Psychology and Sociology.) This program emphasizes breadth of coverage with a focus in an area selected by the student. This major is particularly applicable for students interested in teacher licensure at the elementary and secondary level. A special emphasis will be placed on history. The program addresses the Colorado Model Content Standards in Social Studies and prepares licensure candidates to pass the required content exam.

The student must have preliminary approval of the selected program by an advisor from Sociology Anthropology, and Behavioral Sciences Department.

Behav	Behavioral Science Core			
COUI	RSES			
ANT	1310	Introduction to Cultural Anthropology		
ECO	2010	Principles of Economics-Macro		
HIS	1220	American History since 1865		
PSC	1010	American National Government		
PSY	1001	Introduction to Psychology		
SOC	1010	Introduction to Sociology		
Core Total				
Required Focus in History (9 hours must be upper division)				
COUR	RSES			
HIS	1210	American History to 1865		
HIS	3xxx	Select from Category I*		

HIS HIS *See p	3xxx 4010 age 350	6 7
		12
Genei COUI		ves (9 hours must be upper division)SEMESTER HOURS
PSC	1020	Political Systems and Ideas
PSC	3030	Introduction to International Relations
ECO		Economic History of the U.S
Electi	ve select	ed in consultation with an advisor SOC/ANT/PSY (SOC 3600 Research in the Social Science, is recommended)
(Cana	lidates n	nay substitute ECO 2020 and take an additional upper division SOC/ANT/PSY course)
Major	· Total	42
Addit 1. His		ourse Requirements for Secondary Social Studies:
COUI		SEMESTER HOURS
HIS	1040	World History Since 1500
HIS	3xxx	Select from Category II (below)
HIS	1xxx	Select from Category III (below).
	,	
	ography	
COU		
	1920	Concepts and Connections in Geography
	3000	Historical Geography of the U.S
Geogr	арпу 101	al6
3. Electi		ult with an advisor2-3
Categ	ory I (Se	elect two to apply to BHS major)
COUI	RSES	
HIS	3430	American Revolution and Early National Period, 1736-1848
HIS	3520	Civil War and Reconstruction
HIS	3660	Recent United States 1945-1990s
Categ COUI		elect one to apply to additional course requirements for Secondary Social Studies) SEMESTER HOURS
HIS	3031	Ancient Greece
HIS	3060	Rome and the Caesars
HIS	3120	Medieval History
HIS	3140	Renaissance and Reformation
HIS	3200	Early Modern Europe, 1648-1789
HIS	3230	Nineteenth Century Europe
HIS	3260	Twentieth Century Europe, 1914-2000
Categ	ory III (Select one to apply to additional course requirements for Secondary Social Studies)
COUI		
HIS	1110	Colorado History I
HIS	1250	China, Japan, Korea since 1800
HIS	1940	Survey of African History
Total	Addtion	ıl Course Requirements17-18
		n Course Requirements
		25 Total
		l
	ure 1014 I Total	120 121

Chicano Studies Major with Secondary Social Studies Licensure

The Chicana/o Studies Department offers this concentration which prepares students to become social studies teachers in secondary schools. The requirements include core courses in Chicano Studies, a sequence in history and additional courses in social studies. Students seeking teacher licensure should stay in regular contact with the advisor and the education advisor to assure the proper course progression.

Chicano Stud	lies Required Courses:
COURSES	
CHS 1000	Introduction to Chicana/o Studies
CHS 1010	History of Meso-America: Pre-Columbian
	and Colonial Periods (HIS 1910)
CHS 1020	History of the Chicana/o in the Southwest:
	Mexico and U.S. Periods (HIS 1920)
CHS 2010	Survey of Chicana/o Literature (ENG 2410)
CHS 3300	Education of Chicana/o Children (EDU 3120)
CHS 3010	The Mexican Revolution (HIS 3830)
CHS 3100	The Chicana/o Community (SOC 3130)
CHS 3460	La Chicana
CHS 3600	Mexico and Chicana/o Politics (PSC 3090)
CHS 4850	Research Experience in Chicana/o Studies
Chicano Studi	ies Required Courses Total
	ourse Requirements for Secondary Social Studies
History Core:	- ,
COURSES	SEMESTER HOURS
HIS 1010	Western Civilization to 1715 or 1603
-or-	vesterii Givinzation to 1/13 of 1003
HIS 1030	World History to 1500
HIS 1210	American History to 1865
HIS 1220	American History since 1865
HIS 1040	World History since 1500
History total .	
D-11411-0-1	
Political Scient	ice: SEMESTER HOURS
	American National Government
PSC 1010 PSC 1020	Political Systems and Ideas
	ce total
Foitikui Scien	.0
Economics:	
COURSES	
ECO 2010	Principles of Economics - Macro
ECO 2020	Principles of Economics - Micro
-or-	
ECO 3200	Economic History of the U.S
Economics total	al6
Geography:	
COURSES	
GEG 1920	Concepts and Connections in Geography
GEG 3000	Historical Geography of the U.S
	tal
~ - /	
Anthropology	
COURSES	SEMESTER HOURS
ANT 1310	Introduction to Cultural Anthropology
Antnropology	total

HIS 1220

HIS 1040

Addi	tional Li	icensure Requirement for Secondary Social Sciences
HIS	4010	Methods of Teaching Social Sciences
O1 :	C. 1	•
Chica	ino Stud	ies Required Courses Total
		ourse Requirements Total
		es Total
Gruni	и 10141 .	124
Econor	nics N	Major with Secondary Social Studies Licensure
		required Social Science core the Economics major includes advanced courses in Ecotrics, and History of Economic Thought.
Gene	ral Studi	es:
	RSES	SEMESTER HOURS
	[1310	Finite Mathematics for the Management and Social Sciences
	1010	(Substitutes for MTH 1610)
Gener	ral Studi	es Total
A 1.10	4 1 T S	P
HIS	4010	icensure Requirement for Secondary Social Sciences Methods of Teaching Social Sciences
ПІЗ	4010	Methods of Teaching Social Sciences
Econ	omics C	
COU	RSES	
ECO	2010	Principles of Economics-Macro
	2020	Principles of Economics-Micro
	3010	Intermediate Microeconomic Theory
	3020	Intermediate Macroeconomic Theory
	3150	Econometrics
	4600	History of Economic Thought (Senior Experience)
MIH	1320	Calculus for the Management and Social Sciences
MTL	–or– [1410	Calculus
		re Total
Ltone	iiiics Co	16 10141
	•	upper division Economics courses)
	RSES	SEMESTER HOURS
	3200	Economic History of the U.S
	XXXX	Selected in consultation with an advisor
	XXXX	Selected in consultation with an advisor
	XXXX	Selected in consultation with an advisor
		required
		andard Economics major requires 18 hours of electives. GEG 3000 and PSC 3030, which or Secondary Social Studies, will be accepted towards the major replacing two Econom-
	equirea jo ectives.	or secondary social statutes, will be accepted towards the major replacing two Econom-
		ourse Requirements for Secondary Social Studies
Histo	•	ADJ (DATED Y-AA
COU		SEMESTER HOURS
HIS	1010	Western Civilization to 1715 or 1603
ше	-or-	World History to 1500
HIS HIS	1030	World History to 1500 3 American History to 1865 3
шз	1210	American History to 1865

Poli	tical Scien	ce Total
CO GE GE	graphy: URSES G 1920 G 3000	Concepts and Connections in Geography
Geo	graphy 10	tal6
Beh	avioral Sc	iences:
	JRSES	SEMESTER HOURS
	Γ 1310	Introduction to Cultural Anthropology
		ience Total
Ada	itional Re	quired Courses Total
		33-34
		es Total
Histor	v Mai	or with Secondary Social Studies Licensure
		ducation Concentration is intended for individuals who are in the Secondary E
		lies Licensure Program. These individuals are required to take other specific cou
		er Education in this Catalog.
0	0	
Cor	e Courses 1010	Western Civilization to 1715. Semester Hours
1113	-or-	Western Civilization to 1/13
HIS		World History to 1500
HIS		World History since 1500
HIS	1210	American History to 1865
HIS	1220	American History since 1865
HIS		Methods of Teaching Social Science
Sub	total	
I (9 hour Category	s), at lead III. The	core courses (15 hours) students also need to take the three courses listed in Category II, and at least three courses (6 hours) from Category II, and at least three courses (6 hours) from remaining elective course (3 hours) may be taken from either Category II or III, com among any of the other courses offered by the History Department.
Category	I: Amer	ican History Chronological Sequence
HIS	3430	American Revolution and Early National Period, 1763-1848
HIS		Civil War and Reconstruction
HIS		Recent US, 1945-1990s
Sub	total	9
Category	II: Europ	pean History Chronological Sequence (select at least two courses)
HIS		Ancient Greece
HIS		Rome and the Caesars
HIS		Medieval History
HIS HIS		Early Modern Europe, 1648-1789
HIS		Nineteenth Century Europe
HIS		Twentieth Century Europe, 1914-2000
		6

Political Science: COURSES

PSC 1010

Category	III: Enr	ichment Courses (select at least three courses)
HIS	1110	Colorado History I
HIS	1250	China, Japan, Korea since 1800
HIS	1650	Women in US History
HIS	1920	History of the Chicana/o in the Southwest: 1810 to Present
HIS	1940	Survey of African History
HIS	3090	Native Americans in American History
HIS	3210	French Revolution and Napoleon
HIS	3240	Imperial Russia
HIS	3280	Russia since 1917
HIS	3290	Nazi Germany
HIS	3310	England to 1714
HIS	3320	England since 1714
HIS	3410	American Colonial History
HIS	3540	Emergence of Modern US, 1877-1920
HIS	3570	African American History I
HIS	3580	African American History II
HIS	3590	American Immigration History
HIS	3640	US World War I through World War II
HIS	3700	Modern China
HIS	3740	Modern Japan. 3
HIS	3770	World of Islam
HIS	3830	The Mexican Revolution
		9
	courses	
	gory I	9
	gory II	6
	gory III	9
Elect		
10,000		
Grade Av		
Students 1	majoring	in history must maintain at least a 2.0 average in their history courses.
٨٨٨	tional Co	ourse Requirements for Secondary Social Studies (24 required credit hours)
	ical Scien	
	RSES	
		American National Government
PSC	1010	
PSC	1020 3030	Political Systems and Ideas
PSC Pall		Introduction to International Relations
Polit	ical Scien	ce Total
Econ	omics:	
COU	RSES	SEMESTER HOURS
ECO		Principles of Economics-Macro
ECO		Principles of Economics-Micro
Loo	-or-	Timespee of Beonomics Micro
ECO		Economic History of the U.S
		ral
Lton	onno 101	
Geog	graphy:	
COU	RSES	SEMESTER HOURS
GEG	1920	Concepts and Connections in Geography
GEG	3000	Historical Geography of the U.S
Geog	raphy To	tal

-or-

1030

1040

1210

HIS

HIS

HIS

Econo	omics:	
COUI	RSES	SEMESTER HOURS
ECO	2010	Principles of Economics-Macro
ECO	2020	Principles of Economics-Micro
	-or-	
	3200	Economic History of the U.S
Econo	mics Tot	al6
Ceom	raphy:	
COU		SEMESTER HOURS
	1920	Concepts and Connections in Geography
	3000	Historical Geography of the U.S.(major elective)
		al
	- 1	
	rioral Sci	
COUI		SEMESTER HOURS
		Introduction to Cultural Anthropology
Behav	noral Sci	ence Total
Addit	ional Li	censure Requirement for Secondary Social Sciences
HIS	4010	Methods of Teaching Social Sciences
Addit	ional Co	urse Requirement Total
		re Courses Total
		rs Total (Includes HIS 1040)
		l (Includes HIS 4010)

Secondary Education Minor only

The Secondary Education Minor will be of interest to candidates who wish to work with secondary-aged children outside the classroom (e.g., recreation programs, travel, summer camps, enrichment programs), or work with learners of all ages in corporate or other training/education programs. It provides necessary knowledge, skills and applications in real school settings to develop candidates' understanding of the principles of teaching and learning in middle and high schools. The minor provides an option that assists degree-seeking candidates pursuing licensure to complete their baccalaureate and teacher licensure requirements in four years. To emphasize the application of knowledge in the field as required in new performance standards for teachers, the minor features 160 field experience hours. Candidates seeking licensure need to complete additional requirements including formal admission to the Teacher Education Program and student teaching. The minor does not include all courses required for teacher licensure.

REQUIRED COURSES SEMESTER HOURS				
EDS	3110	Processes of Education in Multicultural Urban Secondary Schools *		
EDS	3120	Field Experiences in Multicultural Urban Secondary Schools *		
EDS	3200	Educational Psychology Applied To Teaching		
EDS	3210	Standards-Based Currriculum, Assessment, and Classroom		
		Management in the Secondary School **		
EDS	3220	Field Experience in Standards-Based Teaching, Assessment. and Management		
		in the Secondary School **		
EDT	3610	Applications of Educational Technology		
RDG	3280	Teaching Literacy Skill Development in the Content Areas		
SED	3600	The Exceptional Learner in the Classroom		
XXX	XXX	Content Methods in Major3-9		
Total				
V /V V PPT	1 .	. 1 1		

^{*/**}These two courses must be taken concurrently.

Secondary English Post-Baccalaureate Licensure

Admission requirements for Post-Baccalaureate students seeking licensure include evidence of having at least a conferred Bachelor's degree as well as the stated admission criteria. Faculty in the Teacher Education Department and the English Department will review the transcript for completed coursework appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete specified courses in the content area, in addition to the professional sequence coursework. Post-baccalaureate students should begin the licensure program by taking the first education courses in their licensure sequence and taking the licensure content exam at their earliest opportunity.

Approved courses in the following content areas:

Literary Criticism or Literary Studies					
American Literature Survey					
British Literature Survey or Shakespeare					
Mythology or World Literature					
Young Adult Literature					
anguage and Linguistics (History of English and the Structure of English)					
Composition (beyond freshman level)					
Methods Courses:					
ENG 4600 Teaching Literature and Communication, 7-12	3				
ENG 4620 Teaching Composition, 7-12	3				
FNG 4640 Teaching English 7-12 (Senior Experience)	3				

See a designated Teacher Licensure Advisor for the following:

Secondary Mathmatics Post-Baccalaureate Licensure Secondary Modern Languages Post-Baccalaureate Licensure Secondary Science Post-Baccalaureate Licensure

Secondary Social Studies Post-Baccalaureate Licensure

Post-baccalaureate candidates seeking licensure in social studies must have a previously conferred **Bachelor's degree in one of the approved Social Science licensure majors at MSCD** (African and African American Studies, Behavioral Science, Chicano Studies, Economics, History, Political Science) or receive approval from a secondary faculty advisor for a closely related social science major and meet the criteria for formal admission. Upon application to the Teacher Education Program, copies of official transcripts from all accredited colleges attended by the candidate, including the baccalaureate degree, must be brought to the Teacher Application Center. The student needs to meet with an appropriate content area advisor for a review of the transcript of completed course work appropriate for the endorsement being sought. It may be necessary for a Post-Baccalaureate candidate to complete additional courses in the content area, in addition to the professional licensure sequence course work to complete their approved teacher preparation program. Post-baccalaureate students should see an advisor at their earliest opportunity, begin the licensure program by taking the first education courses in their licensure sequence, and take the licensure content exam at the earliest opportunity.

Content Knowledge Requirements

The National Council for Social Studies Teachers requires the following Programmatic Standards – course(s) in: U.S. History, World History (both Western and Non-Western), Political Science, Economics, and the successful completion of the Social Studies content exam.

American History
History of Western World
History – Nonwestern
Behavioral Science (an Anthropology course is recommended)
Economics
Political Science (includes U.S. Government)

Geography (includes cultural & physical)
Methods of Teaching Social Studies: HIS 4010-3
Concentration Area – must total at least 18 credit hours, 9 of which must be upper division.

SPECIAL EDUCATION PROGRAM

Department of Teacher Education

Special Education Major Generalist Licensure Special Education Minor Special Education Post-Baccalaureate Generalist Licensure Alternative Licensure (CASEL Program)

Special Education Major for Bachelor of Arts Generalist Licensure Sequence

The special education major is a course of study that will prepare candidates to meet the educational needs of children and adolescents with mild to severe disabilities. The curriculum incorporates the Performance-Based Standards for Colorado Teachers (2000), the Colorado Model Content Standards (1997), the Licensure Standards for the Special Education Generalist, the core standards for the Exceptional Needs Specialist set forth by the National Board for Professional Teaching Standards (1997), and the NCATE/CEC International Standards for the Preparation and Certification of Special Education Teachers (2000). All degree seeking special education majors will complete the elementary or secondary General Studies program and an elementary or secondary concentration that prepares them with the knowledge necessary to teach content within the context of both special education and general education. The education concentrations provide teacher preparation for effective instruction within the context of an inclusionary program. Candidates should consult with a special education faculty advisor for information regarding an added endorsement for Elementary Education.

General Course Requirements

All special education majors must complete the General Course Requirements for candidates seeking licensure in elementary or secondary education. In most cases, the courses satisfy to MSCD's General Studies requirements. These courses prepare candidates to pass the elementary content exam required of all special education candidates prior to student teaching. The special education content test must also be passed prior to recommendation for licensure.

Elementary

COUI	RSES	SEMESTER HOUR	S
ENG	1010	Freshman Composition: The Essay	3
ENG	1020	Freshman Composition: Analysis, Research, and Documentation	3
MTH	1610	Integrated Mathematics I	3
MTH	2620	Integrated Mathematics II	3
SPE	1010	Public Speaking	3
ARTH	H 2100	An Integrated Approach to Art and Music (MUS 2040)	3
ENG	2460	Introduction to Children's Literature	3
HIS	1210	American History to 1865.	3
	-or-		
HIS	1220	American History since 1865	3
SCI	2610	Integrated Natural Science I	3
SCI	2620	Integrated Natural Science II	3
GEG	1920	Concepts and Connections in Geography	3
PSC	1010	American National Government	3
Total	Elemente	arv	6

COURSES	SEMESTER HOU	RS
ENG 1010	Freshman Composition: The Essay	3
ENG 1020	Freshman Composition: Analysis, Research, and Documentation	3
MTH 1610	Integrated Mathematics I	3
MTH 2620	Integrated Mathematics II	3
SPE 1010	Public Speaking	3
XXX xxxx	6 credit hours of Arts and Letters	6
XXX xxxx	3 credit hours of History	3
XXX xxxx	6 credit hours of Social Science	6
XXX xxxx	6 credit hours of Natural Science	6
Total Seconda	ry	36

Degree Seeking Undergraduate Candidates Special Education Core

The special education curriculum is organized into sequences of course work that provide candidates with guidance in program planning. They are comprised of course clusters that candidates may take in any order; however, candidates may not select courses from a higher numbered sequence until the courses in the previous sequence are successfully taken.

coui	rses in 1	the prev	rious sequence are successfully taken.
Sequ	uence I	Course	es
	COUF	RSES	SEMESTER HOURS
	RDG	3110	Foundations of Literacy Instruction in Grades P-6
	SED	2200	Diversity, Disability and Education
	SED	2700	Social/Emotional Development and Disorders
	SED	3600	The Exceptional Learner in the Classroom
	SED	3650	Curriculum and Content Standards
	SPE	1500	Introduction to Communication Disorders
	SPE	2890	Language Acquisition
	Subto	tal Seque	ence I
Sequ		I Cours	ses
	COUF	RSES	SEMESTER HOURS
	SED	3700	Educational and Medical Aspects of Disabilities
	SED	3750	Assessment, Methods, and Assistive Technology for Severe Disabilities
	SED	3800	Differentiated Instruction for Mathematics and Literacy
	SPE	3590	Classroom Intervention for Communication Disorders
	Subto	tal Seque	ence II
Sequ	uence I	II Cour	rses
	COUF	RSES	SEMESTER HOURS
	SED	4050	Evaluation and Program Planning
	SED	4200	Language Development and Reading Disabilities
	SED	4250	Effective Behavioral Support Systems
	SED	4300	Assessment and Methods for Emotional/Behavior Disorders
	Subto	tal Seque	ence III
Sequ	uence I	V Class	ses
	COUF	RSES	
	SED	4420	Issues in Special Education
	SED	4430	Assessment, Instruction and Collaboration Practicum: Elementary
	SED	4440	Assessment, Instruction and Collaboration Practicum: Secondary
	Subto	tal Seque	ence IV
Sequ			ses* - Student Teaching
	Candi	dates m	ust take 12 credits of Student Teaching in one of the following pairs of courses :
	COUF	RSES	SEMESTER HOURS
	SED	4490	Special Education Student Teaching and Seminar: Elementary 6
	EDU	4190	Student Teaching and Seminar: Elementary K-6 6
		-or-	
	SED	4490	Special Education Student Teaching and Seminar: Elementary 6

	SED	4500 -or-	Special Education Student Teaching and Seminar: Secondary
	EDS	4290	Student Teaching and Seminar: Secondary 7-12
	SED	4500 -or-	Special Education Student Teaching and Seminar: Secondary 6
	SED	4490 -or-	Special Education Student Teaching and Seminar: Elementary
	SED	4500	Special Education Student Teaching and Seminar: Secondary
	Total	Special I lidates w	ence V
Edu	ucati	on C	oncentrations
Seco	ndary	Educat	ndidates majoring in Special Education must choose an Elementary Education or ion concentration. The education concentration will allow the candidate to obtain ience in the regular education environment. The courses for each concentration are
Elei	nenta	ry Edi	ucation Concentration
	COUR	RSES	SEMESTER HOURS
	EDT	3610	Applications of Educational Technology
	EDU	4100	Integrated Methods of Teaching Language Arts and the Social Studies: K-6
	EDU	4105	Integrated Language Arts and Social Studies Field Experience: K-6 (60 hours) 1
	EDU		Integrated Methods of Teaching Science, Health and Mathematics: K-6 3
	EDU	4125	Integrated Science, Health and Mathematics Field Experience (45 hours) 1
	PSY	1800	Developmental Educational Psychology
			ž , ž,
	RDG		Literacy Instruction in Grades K-6
	10tal.		
Sec	ondar	y Edu	cation Concentration
	COUR	SES	SEMESTER HOURS
	EDS	3120	Field Experiences in Multicultural Urban Secondary Schools (80 hours) 2
	EDS	3200	Educational Psychology Applied to Teaching
	EDS	3210	Standards-Based Curriculum, Assessment, and Classroom Management in the Secondary School
	EDS	3220	Field Experience in Standards-Based Teaching, Assessment, and
	DD#	2610	Management in the Secondary School (80 hours)
	EDT	3610	Applications of Educational Technology
		3280	Teaching Literacy Skill Development in the Content Areas
	-		ntion Majors with a Secondary Concentration must take 12 hours of Special Education ng (SED 4500) if they do not have a secondary content area.
Sum	mary	of Speci	ial Education Major
	Specie	d Edma-	tion Major with Flamentary Education Concentration
			tion Major with Elementary Education Concentration tion Core
			ducation Concentration
			se Requirements
	Total 1	Program	Hours

Special Education Major with Secondary Education Concentration

 Special Education Core
 65

 Secondary Education Concentration
 16

CENTECTED LIQUIDO

General Course Requirements	6
Electives	
Total Program Hours	20

Special Education Minor

The minor in Special Education is designed to prepare teachers, physical educators, counselors, and professionals to work with exceptional candidates in educational, therapeutic, and recreational settings. candidates should understand that this 18 hour course of study fulfills MSCD requirements for a minor, but it does not lead to licensure.

Special Education Minor Courses:

COURSES		SEMESTER HOURS
SED	3600	The Exceptional Learner in the Classroom

PLUS a minimum of 15 hours selected in consultation with a Special Education advisor, from the following courses:

COURSES		SEMESTER HOURS	
SED	2200	Diversity, Disability and Education	
SED	2700	Social/Emotional Development and Disorders	
SED	3650	Curriculum and Content Standards	
SED	3700	Educational and Medical Aspects of Disabilities	
SED	3750	Assessment, Methods, and Assistive Technology for Severe Disabilities	
SED	3800	Differentiated Instruction for Mathematics and Literacy	
SED	4050	Evaluation and Program Planning	
SED	4200	Language Development and Reading Disabilities	
SED	4250	Effective Behavioral Support Systems	
SED	4300	Assessment and Interventions for Emotional/Behavioral Disorders	
Total for Minor			

Special Education Post-Baccalaureate Program

The MSCD post-baccalaureate licensure program in Special Education provides candidates with a case-based curriculum designed to prepare candidates to meet the needs of children and adolescents with mild to severe disabilities. This professional education sequence for a special education generalist provides content that emphasizes developing effective decision-making in diverse contexts.

Candidates who are interested in the program are required to have a baccalaureate degree. Candidates who do not have a baccalaureate degree should pursue the Special Education undergraduate major. All candidates who enroll in the post-baccalaureate licensure program for Special Education Generalist must take an educational psychology prerequisite course (PSY 1800 or EDS 3200 or the equivalent) and a mathematics content course (MTH 1610 or the equivalent) Candidates must see their special education advisors at least twice a year for information regarding program planning.

General Course Requirements

	COURSES		SEMESTER HOURS
	PSY	1800	Developmental Educational Psychology
		-or-	
	EDS	3200	Educational Psychology Applied to Teaching
	MTH	1610	Integrated Mathematics I
	Subto	tal	
Sequ	ience I	Course	es s
	COUI	RSES	SEMESTER HOURS
	RDG	3110	Foundations of Literacy Instruction in Grades P-6
	SED	2200	Diversity, Disability and Education
	SED	3600	The Exceptional Learner in the Classroom
	SED	3650	Curriculum and Content Standards
	Subto	tal	

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Sequ	ience I	I Cours	es
COURSES			SEMESTER HOURS
	SED	3700	Educational and Medical Aspects of Disabilities
	SED	3750	Assessment, Methods, and Assistive Technology for Severe Disabilities 3
	SED	3800	Differentiated Instruction for Mathematics and Literacy
	Subto	tal	9
Seau		II Cour	
1-	COU		SEMESTER HOURS
	SED	4050	Evaluation and Planning
	SED	4200	Language Development and Reading Disabilities
	SED	4250	Effective Behavioral Support Systems
	SED	4300	Assessment and Methods for Emotional/Behavioral Disorders
Sear		V Cour	
orqe	COU		SEMESTER HOURS
	SED	4430	Assessment, Instruction and Collaboration Practicum: Elementary
	CLL	-or-	Tibotoonioni, moti uotion unu Gonuo orunon Truttoonin Etonioniun / TTTTTTT
	SED	4440	Assessment, Instruction and Collaboration Practicum: Secondary
Sear		/ Cours	
ocqu	SED	4490	Special Education Student Teaching and Seminar: Elementary
	OLD	-or-	operar Education ordaent reaching and ochimar. Elementary
	SED	4500	Special Education Student Teaching and Seminar: Secondary
			ence V
	Suoto	ш эеци	the v
	Gener	al Studi	es Courses
	Licens	ure Tota	1
	Grand	l Total	55-56

Colorado Accelerated Special Education Licensure (CASEL) Program:

The Colorado Accelerated Special Education Licensure (CASEL) Program is a Teacher in Residence program that provides an alternative pathway to K-12 licensure as special education generalist. Courses required for this program are the same as those required for the post-baccalaureate licensure program for special education generalist.

To enroll in the CASEL program, candidates must have a baccalaureate degree from a regionally accredited college or university, meet the Colorado Department of Education requirements for undergraduate coursework in general studies for elementary education licensure, pass the Elementary Education content test and secure a special education teaching position with one of the participating metro-area school districts.

The CASEL program requires participation in a two-week orientation before the beginning of school in year 1, weekly classes for four semesters, a three-week practicum during the summer between years 1 and 2, completion of a professional portfolio including a Teacher Work Sample and 100 hours of coaching and mentoring each year. In the event that candidates seek to transfer from the CASEL program to the MSCD on-campus post-baccalaureate program, they must submit a petition to the special education faculty, but there is no guarantee that the program transfer will be approved.

CASEL candidates who complete a total of 48 credit hours during the two years of the program, demonstrate proficiency on the Performance-Based Standards for Colorado Special Education Generalist, achieve a passing score on the PLACE Special Education content exam during the second year of the program and complete their district's induction program will be recommended by their district for a Special Education Generalist license from the Colorado Department of Education.

The CASEL program is administered through the Metro South Extended Campus office at 5660 Greenwood Plaza Boulevard, Suite 100. Call (303) 721-1313 for more information about the program.

TYPES OF COURSES AND COURSE DESCRIPTIONS

MSCD offers several types of courses: traditional, correspondence, hybrid, online, adaptive self-paced, telecourse, and omnibus (includes field experience/internship/practicum and cooperative education).

Adaptive Self-Paced Learning

Adaptive self-paced learning is a phrase used to describe classes in which students are allowed to proceed at a pace that is suited to their personal learning needs and learning style. Self-paced courses are identified in the *Class Schedule* by the notation "SP". Information on the method of instruction is available in the department.

Students who do not complete the work of a self-paced course during a semester are give the notation of "NC" and must re-enroll in and pay for the course in a subsequent semester in order to continue in that course. A letter grade is awarded during the semester in which the work is completed satisfactorily.

Omnibus Courses

Omnibus courses are courses offered on a temporary basis for several reasons: to meet student demand, to present recent developments in a field, to provide unique experiential learning opportunities, or to present an opportunity to study a special topic that is not a regular part of the curriculum. Omnibus courses may be special topics courses, workshops, field experiences/internships, practica, cooperative education, or independent studies.

All academic departments of the College may offer omnibus courses; the following course numbers are the same for omnibus courses in all disciplines. When listed in class schedules, registration forms, and College records, the course number will carry the prefix of the discipline in which the course is offered. In addition to prerequisites listed under a course, other prerequisites appropriate to the study and departmental objectives may be added.

No more than 30 credit hours earned in all courses numbered 1900, 2888, 2990, 3900, 3970, 4888, 4900, 4980, and 4990 will be counted toward meeting degree requirements. This restriction does not apply to courses listed in the College *Catalog* that use the words "practicum", "cooperative education", etc., and that have a number different from the numbers listed.

A specific syllabus for the omnibus course, which covers content, credit hours, and evaluation methods, must be submitted by an instructor and approved by the Chair of the department or program, the Dean of the school, and the Office of Academic Affairs before such a course can be listed in the Schedule of Classes. These same approvals are required for plans of study that individual students submit for registration in a workshop course (when individualized) or an independent study course. A special form is required for an independent study course.

Field Experience/Internship/Practicum Courses

Field experience or experiential education courses offer major instructional activities conducted outside the regular classroom. These courses incorporate actual experience with information assimilation and adhere to policies set forth by the Colorado Commission on Higher Education. Certain degree, certification, and licensure programs, such as teacher education or nursing, require experiential education courses as a part of the required course work. Other departments offer experiential education courses for credit applicable to graduation requirements, generally as a part of the student's major or minor.

Guidelines for Field Experience/ Internship/ Practicum Courses

- Credit may vary from 1–15 hours, depending upon the instructional activity.
- Students are expected to meet the minimum base clock-hours established by CCHE policy, which requires two to three times the clock-hours established for regular classroom instruction.

- Approved cooperating agencies provide learning opportunities, prepare written statements of assignments, monitor students' performance, confer with the supervising faculty member, and provide a written evaluation.
- A minimum of one hour a week is spent in seminar and discussion or in conference with the
 adjunct faculty at the field experience locale and/or in conference with the supervising faculty
 member.
- The supervising faculty member evaluates the student's performance taking into consideration the
 written and verbal comments of the field supervisor. Final determination of the grade in all cases is
 the sole prerogative of the faculty member.
- Any type of Omnibus course emphasizing field experiences (2990, 3970, 4990) are subject to guidelines established for regular field-based courses, as well as omnibus course guidelines, and must be approved by the Office of Academic Affairs. This could also include 4980 courses listed above.

Correspondence Courses

With no class meetings, correspondence classes allow students to set an independent learning pace at home. Students submit class work directly to instructors via mail and, in most cases, have one year to complete the class. However, a student is technically registered only during the original semester and is not considered a continuing student. Once class work is completed and graded, the grade will appear on the transcript for the original semester enrolled.

COOPERATIVE EDUCATION (CREDIT VARIABLE)

Courses are subject to guidelines established for regular field experience courses, as well as cooperative education guidelines. Credit may vary from 1–12 hours; it usually is 1-3 credit hours. No more than 15 credit hours of Cooperative Education credit will be applied toward degree requirements.

Students must meet CCHE time requirements for internships. A minimum of 45 hours must be spent at the work-site for every one credit hour earned. Academic departments may require substantially more hours than the minimum number.

Credit earned for the Cooperative Education work experiences are not applicable toward General Studies requirements. Additional departmental restrictions may apply to certain majors, minors, and certificates.

Eligibility and Approval Required for all Cooperative Education Courses:

- Students must complete 30 credit hours of college coursework with a minimum 2.50 GPA and have a declared major to be eligible for registration with Cooperative Education. Prerequisites and other requirements vary with each department.
- The student must obtain a learning contract form from the Cooperative Education Internship
 Center and take it to the on-site supervisor for completion of the first page and appropriate signature. The interior portion of the contract is then completed and discussed by the faculty member and student. The Cooperative Education Internship Center staff is always available to provide
 assistance with any of these steps. The contract is then signed by both the faculty member and
 student.
- The learning contract is then sent for approval to the Chair of the department in which credit is being granted. Some academic departments also have departmental committees that review and approve contracts prior to the approval signature of the Chair.
- The learning objectives of the course as well as the number of credit hours to be awarded are specified in the contract. The course requirements are enumerated as well as scheduled meeting times
 and evaluation instruments.

For more information on the program and placement opportunities in an academic major or minor, please contact the Cooperative Education Internship Center office at (303) 556-3290.

Course Descriptions

This section of the *Catalog* includes course descriptions, listed alphabetically by discipline. The descriptions provide information on course numbers, titles, the level of instruction, credit, course sequence, content, and prerequisites as shown in the following example:

CHE 2100-5 Introduction to Organic and Biological Chemistry (4 + 2)

Prerequisites: CHE 1100

This is a study of the elements of organic and biological chemistry. This course satisfies requirements for nursing programs and other fields requiring a survey of organic and bio-

logical chemistry.

The first two to four letters, called the course prefix, represents the area of study or program, e.g., CHE represents chemistry. The course number follows the course subject code, e.g., 2100. The first digit in a four-digit course number designates the level of instruction. Only courses numbered 1000 or above will be included in credits toward a degree. Courses with numbers up to and including 1999 are primarily for freshmen, 2000 through 2999 primarily for sophomores, 3000 through 3999 primarily for juniors, and 4000 through 4999 primarily for seniors. In general, students should not take courses above the level of their class (based upon credit hours earned), but they may do so at one level above if they have the specified prerequisites.

Following each course number is the number of credit hours. As an example, CHE 2100-5 is a sophomore-level, five-credit course. After the course number and credit hours is the course title, which is followed by a second set of numbers in parentheses, called the distribution of credit hours, which indicates the division of time between lecture, laboratory, field experience, or, in music, performance, each week of a fifteen week semester. The first number represents the number of 50-minute lecture periods each week of a 15-week term; the second number indicates the number of laboratory, shop, or field 50-minute periods; and the third (in music) represents performance periods. For example, CHE 2100-5 Introduction to Organic and Biological Chemistry (4 + 2) has 4 times 50 or 200 minutes of lecture and 2 times 50 or 100 minutes of laboratory each week of a 15-week term. One 50-minute lecture period per week for 15 weeks or 750 minutes of lecture contact equals one credit hour. The time is doubled for laboratories. That is, two 50-minute periods of laboratory experience each week for 15 weeks or 1500 minutes of laboratory contact commonly counts as one credit hour (there are exceptions; in Biology laboratories, the time is tripled, so that three 50-minute periods of laboratory experience each week for 15 weeks counts as one credit hour.) Therefore, CHE 2100-5 is worth five credit hours—four for lecture and one for laboratory work. See the next section for more details; there are exceptions to these general rules – i.e., field experiences and cooperative education internships are based on 60-minute hours. (In general, instructional activities taking place in a roomed setting are usually calculated using a 50-minute hour, whereas those taking place outside a classroom or laboratory are calculated on a 60-minute hour.)

Course descriptions provide a summary of the content of the course. If there is a prerequisite that must be met before a student can register for the course, this information is listed above the course description. A list of courses being offered in a given semester, instructors, class meeting times, and locations is described in the *Class Schedule* located on MSCD's Web site (http://www.mscd.edu).

AFRICAN AND AFRICAN AMERICAN STUDIES

AAS 1010-3 Introduction to African American Studies (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests A survey of African American studies—the many facets of the black experience in this coun-

A survey of African American studies—the many facets of the black experience in this country and the discipline of African American studies. Emphasizes the black perspective. (Gen-

eral Studies—Level II, Social Sciences; Multicultural)(GT-SS3)

AAS 1080-3 Readings in African American Studies (3 + 0)

A self-paced course based on selected readings in books, magazines, and newspapers on Afri-

can American studies.

AAS 1130-3 Survey of African History (3 + 0) (HIS 1940)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests

Surveys the major developments on the African continent from ancient times to the modern period. Focuses on political and cultural developments in African civilizations from ancient Egypt to the present. Credit will be granted for only one prefix: AAS or HIS. (General Stud-

ies—Level II, Historical)(GT-HI1)

AAS 2000-3 Social Movements and the Black Experience (3 + 0) (SOC 2000)

Prerequisites: AAS 1010, SOC 1010, or permission of instructor

Analyzes and interprets the nature, cause, and consequence of black social movements in the United States, ranging from the slave period to the present. Particular attention is given to the civil rights movement of the 1950s and 1960s. Credit will be granted for only one prefix: AAS

or SOC.

AAS 2100-3 Women of Color (3 + 0) (CHS 2100, NAS 2100, WMS 2100)

Prerequisites: AAS 1010, CHS 1000, NAS 1000, or WMS 1001; or permission of instructor

Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of these differences and their significance according to race/ ethnicity and class are central to this course. The similarities among diverse groups of women will also be examined in order to better understand the complexity of women's lives. To focus the discussion the course will cover work; families; sexuality and reproduction; violence; religion; and politics. Credit will be granted for only on prefix: WMS or AAS or CHS or NAS. (General Studies—Level II, Social Sci-

ences; Multicultural) (GT-SS3)

AAS 2010-3 Interdisciplinary Research Methods in Social Issues (3 + 0)

Prerequisite: WMS 1001 or AAS 1010 or CHS 1000 or permission of instructor

This course focuses on the interdisciplinary study of methods, analyses and critiques used by scholars to study social issues within and across a range of disciplines (e.g., history, arts, humanities, sciences, education, health, economics, law and social/ behavioral sciences). Research designs, general statistical interpretation will be reviewed for each methodology. Techniques for laboratory and field research, conducting qualitative and quantitative studies, and writing research reports will also be included. Credit will be granted for only one prefix:

WMS or AAS or CHS.

AAS 2130-3 West African Civilizations (3 + 0) (HIS 2950)

Prerequisites: satisfaction of ENG 1010 and the General Studies Level I Communication requirement

Surveys histories and cultures of West Africa from A.D. 1000 to the modern period. Focuses on political, cultural, and economic developments among West African peoples and states. Credit will be granted for only one prefix: AAS or HIS. (General Studies—Level II, Historical)

(GT-HI1)

AAS 2200-3 Politics and Black People (3 + 0) (PSC 2200)

Prerequisites: satisfaction of Level I Mathematics requirement and either ENG 1010 or the Level I Com-

munication course requirement

Black politics is examined as a vehicle and potential in decision making for positive change for black people in this country. The realities and the challenges, both historical and current, are emphasized. Credit will be granted for only one prefix: PSC or AAS. (General Studies—

Level II, Social Sciences; Multicultural)(GT-SS1)

AAS 2300-3 African Peoples and Cultures (3 + 0) (ANT 2350)

Examines traditional cultures of African peoples. Gives added understanding of culture and people in relation to human problems and experiences. Credit will be granted for only

one prefix: AAS or ANT.

AAS 3000-3 History of Egypt (3 + 0) (HIS 3023)

Prerequisite: sophomore standing or permission of instructor

This course explores and examines major developments in the history of Egypt from the Pharaonic period to the modern era. Political, religious, economic and cultural elements are highlighted.

Credit will be granted for only one prefix: AAS or HIS.

AAS 3130-3 Readings in African History (3 + 0)

Prerequisite: AAS 1130 or permission of instructor

Provides the opportunity for students to explore important writings in a selected subject area of African history. Students advance their knowledge of the materials and information related

to the field of African history.

AAS 3220-3 Prejudice and Discrimination in Contemporary Society (3 + 0) (SOC 3220 / WMS 3220)

Prerequisites: SOC 1010 or WMS 1001, or permission of instructor; satisfaction of all Level I General Stud-

ies course requirements

This course examines the origins and characteristics of reace, racism, gender biases and ethnic prejudices; the social, psychological and cultural courses of discrimination and bias; and implications in current societal structures and institutions. Credit will be granted for only one prefix: AAS, SOC or WMS. (General Studies—Level II, Social Sciences; Multicultural)

African American Literature (3 + 0) (ENG 3240) AAS 3240-3

Prerequisites:

six semester hours of English above 1020 or permission of instructor, This course is a study of the various forms of literature produced by Black Americans. The works are considered in the context of the historical and social conditions of the time at which they were written. Credit will be granted for only one prefix: AAS or ENG. Suitable for non-English majors. (General Studies—Level II, Arts and Letters; Multicultural)

AAS 3300-3 The Black Community (3 + 0) (SOC 3140)

AAS 1010 or AAS/SOC 2000, or permission of instructor, and satisfaction of Level I General Prerequisites:

Studies course requirements

Relates fundamental concepts and theories of sociology and African American studies to the study of the black community through an analysis of the educational, political, religious, economic, and family dimensions. Emphasizes local, national, and international black communities. Classic and contemporary black community studies are examined. Credit will be granted for only one prefix: AAS or SOC. (General Studies—Level II, Social Sciences; Multicultural)

AAS 3310-3 African Art (3+0) (ARTH 3310)

Prerequisites: ENG 1010 and ENG 1020

This course examines the art of the continent of Africa and evaluates the ways it has been studied and displayed. It traces historical relationships between regions, from the shores of the Mediterranean and the Nile Valley, the west and Ivory Coast, to the central regions and east and south to the Swahili Coast and the Cape. Credit will be granted for only one prefix: ARTH or AAS.

Egyptian Art (3 + 0) (ARTH 3330) AAS 3330-3

ENG 1010 and ENG 1020 Prerequisites:

This course examines Egyptian art from the beginnings of civilization in Kemet (the Black Land), through Greek, Roman, and Byzantine colonial periods and continuing into the Islamic period.

Contemporary Africa (3 + 0) (PSC 3400) AAS 3400-3

This course focuses on the political, social, and economic highlights of post-independence Africa. Africa's relations with the outside world and the question of South Africa are also examined in this course. Credit will be granted for only one prefix: AAS or PSC.

AAS 3550-3 The Black Family (3+0) (SOC 3440)

AAS 1010 or SOC 1010, and satisfaction of Level I General Studies course requirements Prerequisites:

Provides an in-depth exploration of the black family as a social institution. Emphasizes the historical roots of the black family and how the African influence is enmeshed in the functioning of the family in modern society. Examines the factors responsible for the ability of the black family to meet the challenge of a changing society. Credit will be granted for only one prefix: AAS or SOC. (General Studies—Level II, Social Sciences)

AAS 3570-3 African American History I (3 + 0) (HIS 3570)

HIS 1210, HIS 1220, or permission of instructor Prerequisites:

Moving from the background of African culture and the slave trade, this course traces the distinctive role of the people of African heritage in the U.S. to 1876. Credit will be granted for

only one prefix: AAS or HIS.

AAS 3580-3 African American History II (3 + 0) (HIS 3580) Prerequisites: HIS 1210, HIS 1220, or permission of instructor

Continues a study of the role of the people of African heritage in the U.S. from 1876 to the present. Emphasizes an understanding of the historical tradition that gives rise to current

dilemmas facing America. Credit will be granted for only one prefix: AAS or HIS.

AAS 3700-3 Psychology of Group Prejudice (3+0) (CHS 3700/PSY 3700/WMS 3700)

PSY 1001 or AAS 1010 or CHS 1000 or WMS 1001 Prerequisites:

This course covers psychological theory and research that examines causes, consequences, and ways of reducing prejudice and discrimination. Various expressions of prejudice and discrimination are addressed, most notably racism and sexism. Credit will be granted for only

one prefix.

AAS 3910-3 African Politics and Government (3 + 0) (PSC 3910)

Prerequisites: AAS 1130, AAS 2300, or permission of instructor

Surveys present-day political systems in Africa and examines internal and external factors that

have contributed to their emergence. Credit will be granted for only one prefix: AAS or PSC.

AAS 4490-3 Contemporary Issues in African American Studies (3 + 0)

Prerequisites: at least junior standing and AAS 1010

Provides an in-depth study of selected issues that significantly impact the black people in

the U.S. Topics vary and the course may be repeated for credit with the permission of the

department chair.

AAS 4850-3 Research Seminar in African American Studies (3 + 0)

Prerequisite: six hours of upper-division courses in African American studies

Provides the opportunity for refining research skills. Students participate in planned seminar

sessions and conduct in-depth research on selected topics under close supervision of a faculty

member. (Senior Experience)

ACCOUNTING

ACC 2010-3 Principles of Accounting I (3 + 0)

Prerequisite: Satisfaction of the Level I mathematics requirement

This course introduces students to the role of accounting in society and economic decision making. The course focuses on financial accounting and reporting as tools to aid external decision making, financial analysis and interpretation. Topics covered include: conceptual foundations and principles underlying financial statements; accounting systems overview; analysis and

interpretation of financing, investing and operating activities; and attestation.

ACC 2020-3 Principles of Accounting II (3 + 0)

Prerequisite: MTH 1110 or 1310 or 1400; ACC 2010

This course is a continuation of ACC 2010. The course focuses on managerial accounting and cost management as tools to aid internal decision making, planning and control. Topics covered include: accounting and management decisions; traditional and activity-based costing systems; planning and control systems; managerial accounting in a global environment; and current approaches including ABM, JIT, value chain, target costing, continuous improvement

and quality management.

ACC 3090-3 Income Tax I (3+0)

MTH 1110 or 1310 or 1400; ACC 2010, PSC 1010, and junior standing Prerequisite:

A study of federal income tax laws with an emphasis on personal income taxation, including

such topics as gross income, gains and losses and deductions.

ACC 3100-3 Income Tax II (3 + 0)

Prerequisites: ACC 2020 and 3090

Continuation of ACC 3090 with a comparative focus on the taxation of organizational tax

entities, including partnerships, corporations and S-corporations.

ACC 3110-3 Volunteer Income Tax Assistance (VITA) (3 + 0)

Prerequisite:

Students will have primary responsibility for operating a VITA site as a tax service. Students will prepare both federal and State of Colorado income tax returns. The focus will be on pre-

paring returns for the elderly, disabled, foreign students and low income individuals.

ACC 3200-3 Governmental Accounting (3 + 0)

Prerequisite: ACC 2020

The study of generally accepted accounting principles and financial reporting used by state

and local governmental units. This includes achieving an understanding of fund accounting and inclusion of budgets within the accounting systems. Also a study of accounting and financial reporting of colleges, hospitals, voluntary health and welfare organizations and

other not-for-profit institutions is included.

ACC 3300-3 Accounting Information Systems (3 + 0)

Prerequisites: MTH 1110 or 1310 or 1400; ACC 2020 and CIS 2010

The course is a study of principles and current issues relating to the design, implementation, control and regulation of accounting information systems. Tools and technologies related to accounting systems and the place of accounting systems within the modern enterprise provide a focus for the course, which includes an introduction to accounting related information

technology (IT) audit issues.

ACC 3400-3 Cost Accounting (3 + 0)MTH 1110 or 1310 or 1400; ACC 2020, and CIS 2010. Prerequisites:

This course includes coverage of cost behavior relationships, job order and process costing systems, overhead allocation methods, budgeting and budget variance analysis, cost-volumeprofit relationships and cost prediction for supporting management decision-making in service, sales and manufacturing organizations. Computer applications are an integral part of

this course.

Advanced Cost Accounting (3 + 0) ACC 3400, CIS 2300 ACC 3410-3

Prerequisites:

This course applies cost accounting concepts and procedures to particular business decisions. Topics covered include cost allocation, short run decisions, capital budgeting techniques, inventory management organization performance evaluations transfer pricing and other cur-

rent topics which support management decision-making.

ACC 3510-3 Intermediate Accounting I (3+0)

MTH 1110 or 1310 or 1400; ACC 2020 Prerequisite:

This is the first course in Intermediate Accounting. The Intermediate Accounting courses are designed to teach the concepts and procedures underlying the measurement and reporting of

financial information.

ACC 3520-3 Intermediate Accounting II (3 + 0)

Prerequisite: a grade of "C" or better in ACC 3510

Continuation of ACC 3510. In-depth study of basic accounting principles with an emphasis

on stockholders' equity and special problems.

ACC 4090-3 Tax Procedure and Research (3 + 0)

ACC 3090 Prerequisite:

An in-depth study of procedures in effective tax research as applied to specific problems of taxpayers.

ACC 4100-3 Tax Planning (3+0)

Prerequisite: ACC 3100

A portion of this course is devoted to the federal estate and gift tax laws with emphasis placed upon the accountant's role in estate planning. The remainder is devoted to the various planning techniques that can often be utilized to reduce an individual's personal income taxes.

ACC 4200-3 Auditing and Attestation (3 + 0)

Prerequisite: ACC 3510

ACC 3520 Corequisite:

This course is an introduction to contemporary theory and practice of auditing and attestation. The course will acquaint the students with auditing and attestation standards, professional ethic, internal control, objectives and procedures for audits and attestation, risk assessment, audit and attestation reports, legal liability, research methodology, and corporate governance. Concepts included are professionalism, independence, evidence, risk, control,

and enhancement of reliability and relevance properties of attester's services.

ACC 4300-3 Advanced Auditing (3 + 0)

Prerequisite: ACC 4200

> This course is a continuing study of the underlying theory of auditing, with a concentration on professionalism, auditing standards and procedures, the public accounting environment, and internal auditing. The course includes special emphasis on current developments

in auditing.

ACC 4510-3 Advanced Accounting (3 + 0)

Prerequisite: ACC 3520

This course includes coverage of reporting requirements of partnerships, SEC-regulated companies, not-for-profit organizations, and financially distressed entities, as well as disaggregated information disclosure requirements and international harmonization of accounting standards.

ACC 4520-3 Mergers and Acquisitions (3 + 0)

Prerequisite: ACC 3520 or FIN 4500

This course is a comprehensive study of mergers and acquisitions focusing on the preparation of consolidated financial statements. Complexities inherent in consolidating investments in foreign subsidiaries are addressed in depth. Additional topics include: variable interest entities; accounting for foreign currency transactions, hedging transactions, and equity method investments; reporting disaggregated information; and interim reporting requirements.

ACC 4650-3 Fraud: Issues in Accounting and Auditing (3 + 0)

Prerequisite: ACC 3510

The purpose of this course is to examine various aspects of fraud. Students will address ethical issues related to accounting and auditing. The course will provide an overview of the nature of fraud and its effects on business organizations. Methods to prevent, detect, and investigate fraud will be explored in detail. Students will develop skills in detecting and preventing asset misappropriation and other fraudulent activities. The importance of internal control and accounting information systems, as well as the role of the auditing process in the prevention and detection of fraud.

AVIATION AND AEROSPACE SCIENCE

AES 1100-6 Aviation Fundamentals (6 + 0)

Corequisites: AES 1710 and AES 1400 (recommended)

Fundamentals of aviation for the beginning student. Includes a study of the airplane and its components, aerodynamics, basic aircraft systems, the airport environment, air-traffic control procedures, Federal Aviation Regulations, the basic elements of air navigation including radio navigation, and a review of aviation weather. Prepares the student for the Federal Aviation (FAA) Private Pilot Knowledge examination

tion Administration (FAA) Private Pilot Knowledge examination.

AES 1400-3 Aviation Weather (3 + 0)

Corequisite: AES 1100 or permission of instructor

This course develops basic meteorological concepts that apply to aviation. Emphasis is on the use of National Weather Service reports and forecasts to evaluate flight conditions. The course also prepares students for the weather section of the FAA Private Pilot Knowledge examination.

AES 1500-1 Private Flight (0 + 2)

Prerequisite: permission of instructor

The course is designed to enable a student to obtain credit for earning an FAA Private Pilot certificate under either Federal Aviation Regulations Part 61 or Part 141. A minimum of 35 hours of flight time is required. Course credit is contingent on the student obtaining the FAA

Private Pilot certificate.

AES 1710-3 Single-Engine Flight Simulation I (2 + 2)

Corequisite: AES 1100 (recommended)

Basic flight instruments, radio navigation, aviation weather, aircraft performance (including weight and balance), crew coordination and decision making are studied. The fundamentals of instrument attitude flight (scanning, interpreting, and controlling) are learned in the flight simulator. Radio navigation is introduced, including VOR, DME, ADF, and transponder operation.

AES 1760-3 Single-Engine Flight Simulation II (2 + 2)

Prerequisite: AES 1710, or Private Pilot certificate, or permission of the instructor

Reviews attitude instrument flight and radio navigation with wind correction. VFR cross-country flights are planned and flown using VOR, DME, ADF, and localizer navaids. Flight planning includes the use of weather data and performance and loading data for complex, single-engine airplanes. Introduces holding patterns and VOR/NDB approaches. Emphasizes

crew coordination and decision making.

AES 1800-6 Commercial/Instrument Ground (6 + 0)

Prerequisites: AES 1100, AES 1400, or permission of instructor

Studies aeronautics, regulations, meteorology, and instrument procedures in preparation for

the FAA commercial and instrument knowledge examinations.

AES 2050-3 Aviation History and Aerospace Development (3 + 0)

This course examines how the people and defining events of the past influence aviation and aerospace career opportunities. From the early myths and legends through present and anticipated aerospace developments, the effects that advances in propulsion systems, structural materials, navigation techniques, high altitude flights, and weather considerations have had upon the progress of manned flight in and beyond the atmosphere are considered. We vicariously re-live some of the extraordinary experiences of early aviators, both in peace and in war. The course includes examination of aviation artifacts of the World Wars I and II eras. There are field exercises to the Air and Space Museum, launch vehicle facilities, and other aviation activities.

AES 2150-4 Avionics for Aviators (4+0)

Prerequisites:

AES 1100, MTH 1100, PHY 1250 or permission of instructor This course is an Avionics Systems/Maintenance Management oriented toward the pilot. The instruction will enable the student to become familiar with, and be comfortable in the use of, the Avionics suite, thus reducing cockpit confusion during flight. The course provides a working understanding of light plane aircraft electrical systems, and systems including VHF COM, AĎF, VOR/LOC, ĬLS/ĞĹD, SLP/MKR BCN, DME, TRANSPONDER and MOĎE C, FDMS, RADAR and SFERICS, GPS, ANTENNAS, ELT, PCL, MFDs, EICAS, and HUD. The student will also learn how to implement avionics failure-prevention procedures while pilot-in-command and know and appreciate the limitations of electronic navaids due to equipment and propagation anomalies. Emphasis is on safety and precautions; the goals is systems-smart, competent pilots.

AES 2200-4 Fundamentals of Air Traffic Control (2 + 4)

Prerequisite:

AES 1100 or permission of instructor

This course is an introduction to air traffic services, procedures, communications, recordkeeping, regulations, emergencies, and air space constructions. Basic and advanced ATC (air traffic control) radar topics are introduced with emphasis on hands-on application in the simulator lab. Lab exercises encompass aircraft separation, identification and speed control, flight progress strip usage, emergency procedures, and the elements necessary for the safe operation of the ATC system.

AES 2220-3 Flight Dispatcher and Load Planning (3 + 0)

Prerequisite:

Prepares the student to work as a dispatcher for an airline. Regulations required for operations are a vital area of the course. Covers methods of decision making, safety, and weather conditions relating to dispatch decisions.

AES 2330-3 Precision Flight and Navigation (2 + 2)

Prerequisite:

AES 1100 or Private Pilot certificate

The first Flight Team course prepares students for participation in the National Intercollegiate Flying Association regional and national flying meets. Flight and ground event accuracy and time events are learned. Required for students who are new members of the MSCD Precision Flight Team.

AES 2500-1 **Instrument Flight (0 + 2)**

Prerequisite:

AES 1100 and permission of instructor

This course is designed to enable a student to obtain credit for earning an FAA Instrument rating under either Federal Aviation Regulations Part 61 or Part 141. A minimum of 40 hours of instrument flight time is required. Course credit is contingent on the student obtaining the FAA Instrument rating.

AES 2710-3 Instrument Flight Simulation I (2 + 2)

Prerequisite:

Private Pilot certificate or permission of instructor

IFR cross-country flights are planned and flown in the simulator, using radio navigation fundamentals. Flights include ATC clearances, radio aids for determining position, holding patterns, and approaches.

AES 2750-3 **Instrument Flight Simulation II** (2 + 2)

Prerequisites:

AES 1800, AES 2710, or permission of instructor

A continuation of AES 2710, introducing more complex flight planning, clearances, en route flight, and approaches. Includes in-flight route changes and missed approaches.

AES 3000-3 Aircraft Systems and Propulsion (3 + 0)

Prerequisites:

AES 1100 or FAA Private Pilot certificate, and PHY 1250 or permission of instructor Introduces aircraft nomenclature, design, features, systems, and their components. Covers the theory, components, instrumentation, and operation of internal combustion and turbojet engines, as well as fuel, electrical, hydraulic, and pneumatic aircraft systems.

AES 3220-3 Aviation Law and Risk Management (3+0)

AES 1100 and at least junior standing Prerequisite:

This course provides an overview of fundamental aviation law. Concepts and terminology of administrative law, contract law, and tort law as they relate to governmental actions, aircraft accidents, aircraft transactions and insurance, airports and airspace, and labor and employ-

ment are introduced. An introduction to space law is included.

AES 3230-3 Airline Management (3 + 0)

Prerequisite: at least junior standing, or permission of instructor

This course consists of studies in airline management pertaining to an integration of the economic characteristics of airlines into marketing and scheduling decisions; current airline relationships between management and the unions; airline pricing and demand decisions; and airline financing problems and solutions. Specific functions of all aspects of airline management are considered. The emphasis will be on current airline activities and issues that pre-

pare the student to solve problems through critical thinking skills.

AES 3240-3 Airline Planning (3 + 0)

Prerequisite:

at least junior standing
This course consists of studies in the integration of local air transportation with the National Air Transportation System; forecasts of growth in the airline industry; interfaces with differing sectors of the air carrier industry; airport ground facilities and equipment needs; terminal area airspace problems; and equipment and financial considerations. The emphasis will be on CURRENT activities and issues that prepare the student for necessary critical thinking skills

and employment.

AES 3330-2 Intermediate Precision Flight and Navigation (2 + 1)

Prerequisite:

The second Flight Team course is a continuation of AES 2330, further preparing the students for participation in the National Intercollegiate Flying Association regional and national flying meets. Flight and ground event accuracy and timed events are practiced with emphasis on speed as well as accuracy. Required for students who are second semester members of the

MSĈD Precision Flight Team.

AES 3340-1 Advanced Precision Flight and Navigation (1 + 1)

Prerequisite:

The third Flight Team course is a continuation of AES 3330, further preparing the student for participation in the National Intercollegiate Association regional and national flying meets. Flight and ground event accuracy and timed events are practiced with emphasis on speed as well as accuracy. Students at this level will help teach newer team members. Required for stu-

dents who are third semester members of the MSCD Precision Flight Team.

AES 3460-3 Weather for Aircrews (3 + 0)

AES 1400, at least junior standing or permission of instructor Prerequisite:

This course builds upon the basic aviation weather knowledge required of pilots with particular emphasis on those aspects of weather affecting advanced flight operations. Stability and turbulence, clear-air turbulence, icing, jet stream weather and the use of airborne radar are considered. Weather related aircraft accident reports with analysis of the influence of the weather factors involved are reviewed in detail. Students will develop the ability to project

their knowledge of weather to conditions at airports in unfamiliar locations.

AES 3520-1 Commercial Flight (0 + 2)

Prerequisites: FAA Private Pilot certificate and permission of instructor

The course is designed to enable a student to obtain credit for earning the FAA Commercial Pilot certificate under either Federal Aviation Regulations Part 61 or Part 141. Course credit

is contingent on the student obtaining the FAA Commercial Pilot certificate.

AES 3530-3 Aerodynamics (3 + 0)

Prerequisites:

This course studies the basic principles of aerodynamics, including airfoil shapes and aerodynamic forces, airplane performance, stability and control, strength limitations, and the application of these to specific flight situations. Included in this course are flight performance with

air flow in the sub-, trans-, and supersonic envelopes.

AES 3550-3 FAA Instructor Certification—Ground (3 + 0)

AES 1800 and FAA commercial/instrument certificate, or permission of instructor Prerequisites:

Prepares the student for taking the following FAA knowledge tests: Fundamentals of Instruction (FOI), Flight Instructor—Airplane (single and multi-engine), Ground Instructor—Basic

and Advanced. Emphasizes the practical aspects of flight instruction.

AES 3570-2 Ground Instructor Practicum (0 + 4)

Prerequisite: FAA Commercial/Instrument certificate, CFI or Advanced or Instrument Ground Instructor

certificate, or permission of instructor

This course provides students practice as aviation instructors in advanced single-engine flight simulators. It covers all aspects of flight planning and preparation, setup of simulators,

cockpit management, and IFR and VFR flight procedures, and navigation.

AES 3710-3 Multi-Engine Flight Simulation I (2 + 2)

Prerequisite: FAA commercial/instrument certificate or permission of instructor

Introduces multiengine aircraft operations, such as IFR cross-country flight. Introduces complex weight and balance computations and use of performance charts. Normal and emergency procedures are studied in the twin-engine simulator. Aeronautical decision making and

cockpit resource management are developed.

AES 3850-3 Human Factors and Physiology of Flight (3 + 0)

Prerequisite: at least junior standing

Human factors, physiological effects and problems associated with flight are studied in this

course. This includes both high and low altitude flight environments.

AES 3870-3 Aircraft Accident Investigation (3 + 0)

Prerequisites: at least junior standing or permission of instructor

This course examines techniques and procedures for investigating aircraft accidents/incidents and report writing. Areas of emphasis are operations, air traffic control, meteorology, witnesses, human factors, cockpit voice recorder, structures, power plants, systems, performance,

maintenance records, and flight data recorder.

AES 3880-3 Aviation Security (3 + 0)

Prerequisite: at least junior standing

The history, development and strategies of prevention and response to aviation security issues are studied in this course. This includes airport, air carrier, cargo, general aviation and in-flight security challenges, security assessments and anti-terrorism strategies. The history of air terrorism is addressed, focusing on terrorist tactics and governmental response before

and after 9/11/2001.

AES 4040-3 Aircraft Performance (3 + 0)

Prerequisites: AES 1100, AES 3530 and at least junior standing

Performance of jet-and propeller-powered aircraft is examined. Flight profiles are studied, with emphasis on aircraft capabilities, limitations, and determination of speeds, power, or thrust settings for various conditions of flight. Weight and balance performance charts are reviewed.

AES 4100-3 Advanced Air Traffic Control (1 + 2)

Prerequisite: AES 2200 or permission of instructor

Introduces advanced ATC radar topics, with emphasis on hands-on application in the simulator lab. Covers aircraft separation; identification and speed control; flight progress strip usage; emergency procedures; and the elements necessary for the safe operation of the ATC system.

AES 4120-4 Air Carrier Systems (4 + 0)

Prerequisites: at least junior standing, AES 3000, AES 3530, AES 4040, and the FAA Commercial Pilot cer-

tificate with Instrument rating

Corequisite: AES 4130

This course gives the air carrier first officer candidate an operational knowledge of air carrier aircraft systems. This includes powerplant, fuel, electrical, hydraulic, pneumatic, air conditioning, pressurization, avionics, flight controls, fire protection, and ice and rain protection systems.

AES 4130-4 Flight Officer Duties and Responsibilities (4 + 0)

Prerequisites: at least junior standing, AES 3000, 3530, 4040, and the FAA Commercial certificate with

Instrument rating

Corequisite: AES 4120

This course gives flight officer candidates an operational knowledge of air carrier aircraft operating procedures including external and internal preflight, engine start and in-flight procedures. It also provides instruction in irregular and emergency procedures, and in-flight

flight officer duties and responsibilities as set forth in FAR Part 121.

AES 4150-2 Transport Category Aircraft Systems (1 + 2)

Prerequisite: senior standing, AES 4120 or AES 4140 and AES 4130

The course requires students to apply the theory learned in AES 4120 and AES 4130. A selected transport category aircraft will be studied in depth using CD-ROM training materials. Students will learn in detail the workings of various systems of the aircraft and study the

procedures in normal and emergency flight operations.

AES 4200-3 Airport Planning (3 + 0)

Prerequisite: at least junior standing or permission of instructor

Exposes students to the dynamics of a planning process. This process includes data gathering, data analysis, site selection, airport layout, and airport financing. The problems of noise and

air pollution are addressed in depth.

AES 4210-3 Airport Management (3 + 0)

Prerequisites: at least junior standing; AES 4200; or permission of instructor

Studies the modern airport and the factors involved in its management. Various management functions of administration, finance, capital finance, operation, maintenance, and public

relations are analyzed.

AES 4230-3 General and Business Aviation Operations (3 + 0)

Prerequisite: senior standing or permission of instructor

This course is a study of the general aviation service industry (fixed-base operators and specialized aviation service operators). The course includes lectures on the history and evolution of the general aviation service industry, management functions, marketing, finance, human

resources, operations and safety.

AES 4240-3 Air Cargo (3 + 0)

Prerequisite: at least junior standing

An overview of the air cargo industry, including the history of development; air shipment economics; review of legislation and regulatory agency trends; cargo aircraft now in use; air

freight forwarding; and current air-freight terminal operations problems.

AES 4250-3 Formulation of National Aviation Policy (3 + 0)

Prerequisite:

Student must be an aviation and aerospace science major with at least junior standing and will be preapproved by the department for enrollment in the course. The preapproval process includes submitting an application to the department by September 30 before the spring

semester in which he/she wants to enroll.

Students taking this course will be required to attend the University Aviation Association's annual seminar held in January in Washington, D.C. before the start of the spring semester and to participate in six pre-trip meetings in the fall semester prior to the seminar. At this seminar, students and faculty from member institutions will meet to discuss current national aviation issues and investigate the politics and ongoing governmental processes established to deal with these issues. The focus of the pre-trip meetings will be a study of the aviation issues to be evaluated and the background needed to understand the politics involved. While at the seminar, students will be required to interview key aviation and government officials, gather data, and learn about the policy making process. During the spring semester, each participant will prepare a comprehensive research paper as a final project to demonstrate the lessons learned.

AES 4370-3 Advanced Navigation Systems (3 + 0)

Prerequisite: AES 1100 and at least junior standing

This course is a follow-up to the navigation portion of AES 1100. It reviews geographic coordinate systems and aircraft position determination and further develops navigation systems available to modern aviation. A survey study is conducted of all long-range navigation systems to include FMS, EFIS, INS, and GPS. Finally, electronic instrumentation, navigation and

flight management systems are discussed.

AES 4500-1 Flight Multi-Engine (0 + 2)

Prerequisite: FAA Commercial Pilot certificate and permission of instructor

This course covers multi-engine aircraft operations. A minimum of 10 hours of flight training time are required. The FAA multiengine rating must be obtained to receive credit for

this course.

AES 4510-1 Flight Instructor (0 + 2)

Prerequisites: FAA Commercial/Instrument Pilot certificate and permission of instructor

This course provides the basic aeronautical knowledge and flight experience necessary for the FAA Certified Flight Instructor certificate. Fifteen hours of flight training are required and the FAA Certified Flight Instructor certificate must be obtained to receive credit for this course.

AES 4520-1 Flight Instructor-Instrument (0 + 2)

FAA Certified Flight Instructor certificate and permission of instructor Prerequisites:

This course provides the basic aeronautical knowledge and experience that the instrument flight instructor must have. Ten hours of flight training are required and the FAA Instrument

Instructor rating must be obtained to receive credit for this course.

AES 4530-1 Flight Instructor—Multi-Engine (0 + 2)

Prerequisites: CFI, multi-engine rating and permission of instructor

This course provides the basic aeronautical knowledge and experience relative to multiengine flight instruction that the prospective multiengine flight instructor must have. Fifteen hours of flight training time is required. The FAA Multiengine Flight Instructor rating must

be obtained to receive credit for this course.

AES 4550-1 Flight Helicopter (0 + 2)permission of instructor Prerequisites:

Helicopter systems, aerodynamics, flight characteristics, helicopter operations, and pertinent regulations and procedures are studied in this course. The FAA Commercial Pilot certificate with the Rotorcraft-helicopter rating must be obtained to receive credit for this course.

AES 4570-1 Airline Transport Pilot (0 + 2)

FAA Commercial/Instrument certificate and permission of instructor Prerequisites:

Fifteen hundred hours of flight time, including 500 cross-country, 100 hours night flying, and 75 hours of instrument flight are required to complete this course. Students should be close to having completed the required flight hours before enrolling in this course. The course involves knowledge of navigation, weather, FARs, radio communications, weight distribution on aircraft and loading. Course credit is contingent on the student obtaining the FAA Airline

Transport Pilot certificate.

AES 4580-4 Turbojet Flight Engineer or Type Rating (2 + 4)

FAA Flight Engineer Knowledge examination and/or permission of instructor Prerequisites:

This course is for the student with access to type rating or flight engineer training, such as at an airline, and consists of ground school for B-727, DC-8, or other turbojet airplanes. Approximately 15 hours of second officer or "type" training and a flight check in the airplane

or an FAA-approved simulator will be completed at a facility external to the college.

AES 4590-2 Flight Instructor Practicum (0 + 4)

AES 3570, FAA Commercial/Instrument certificate, CFI, Advanced or Instrument Ground Prerequisites:

Instructor certificate, or permission of instructor

This course provides students practice as a flight instructor in advanced single- and twinengine flight simulators. It covers all aspects of flight planning and preparation, setup of simulators, cockpit management, IFR flight procedures and navigation, and emergency procedures using the capabilities of the simulator computers.

AES 4600-3 Space Flight (3 + 0)

Prerequisite: at least junior standing or permission of instructor

This course is an introduction to astronautics. Topics include the fundamental laws of astrophysics, basic launch and re-entry operations, the space environment, propulsion systems, and launch vehicles. Opportunity is provided for individual student-led investigations related to topics such as space exploration, space commercialization, space defense, space stations,

space planes, remote sensing, mission analysis and design, and space policy/law.

AES 4710-4 Turboprop Flight Simulation (2 + 4)

AES 2710, senior standing, FAA Private Pilot certificate with instrument rating; Commercial Prerequisite:

Pilot Certificate and Multiengine rating or AES 3710 recommended

This course introduces twin-engine turboprop aircraft operations. Skill is developed in weight and balance computations and use of performance charts. Normal and emergency procedures are studied specific to turboprop airplane operations. Aeronautical decisionmaking and crew resource management skills are developed. Procedures used in regional air

carrier operations are covered.

AES 4760-3 Aerospace Education (3 + 0)

Prerequisite: permission of instructor

Provides background in aircraft propulsion and principles of flight required to teach aerospace courses in elementary and secondary schools. Acquaints the student with aeronautical

terms, the forces acting upon aircraft in flight, and elementary navigation.

AES 4770-2 Methods of Teaching Aerospace Education (2 + 0)

AES 4760 or permission of instructor Prerequisite:

Surveys techniques and methods used in applying basic aerospace fundamentals to elementary, secondary, and industrial classrooms. Uses special aerospace media, such as instrument

flight simulators, models, radio navigational aids boards, and mockups.

AES 4780-2 Curriculum Development in Aerospace Education (2 + 0)

AES 4760, AES 4770, permission of instructor Prerequisites:

Discusses specific objectives and educational implications of aerospace education. Students select a special field of emphasis such as mini-courses for elementary schools, aerospace

courses for secondary schools, or adult education courses for industry.

AES 4860-3 Aviation Safety (3 + 0)

Prerequisites: senior standing

This course provides and overview of policies, science, and management concerns as related to aviation and aerospace safety. Topics include governmental regulatory framework and agencies responsible for safety and accident investigation, methods of analyzing and interpreting safety data, accident causation models, and human factors in aviation and aerospace safety. A survey of safety issues in air traffic control, aircraft design and certification, airline organization and operations, and aerospace operations is provided. Overviews of aviation security issues and principles of aviation safety program management are also included.

AES 4910-3 Aviation Management and Job Targeting (3 + 0)

Prerequisites: Aerospace Science major and senior standing or permission of instructor

Develops the student's management solving skills and personal marketing plan to effectively pursue employment. Current aviation management problems are researched and solutions are developed through group problem-solving techniques. Personal marketing plan preparation helps define goals, identify skills, prepare credentials and practice interviewing. Guest

lecturers from aviation industry highlight the features of their businesses.

AES 4930-3 Professional Flight Standards Seminar (3 + 0)

Prerequisites: AES 3710 or AES 4710, completion of, or concurrent enrollment in, all other Aviation and

Aerospace Science core courses and senior standing

This course is a senior-level capstone course for Aviation Technology majors. It is an academic survey of Crew Resource Management, Organizational Communication, Aviation Psychology, Strategies, Principles and Contemporary Issues in Aviation with a practical emphasis on Advanced Cockpit Automation, LOS/LOFT Development, Evaluation and Facilitation.

(Senior Experience)

AES 4950-3 Aviation and Aerospace Science Management Strategies (3 + 0)

completion of, or concurrent enrollment in, all other Aviation and Aerospace Science core Prerequisites:

courses and senior standing

This capstone course presents a progression of aviation and aerospace management casebased studies designed to emphasize the application of team building, communication, and critical thinking skills in the work environment. Students are required to synthesize and apply their knowledge and skills to each case. The skills and knowledge acquired by students throughout their education in the Aviation and Aerospace Science Department are evaluated

in this course. (Senior Experience)

AIR FORCE ROTC

AFR 1010-1 Foundations of the United States Airforce 1 (1 + 0)

One 1-hour lecture and one 1 1/2-hour lab per week. This course deals with the Air Force in the contemporary world through a study of the total force structure, strategic offensive and defensive forces, general purpose forces, aerospace support forces, and the development of

communicative skills.

AFR 1020-1 Foundations of the United States Airforce 2(1+0)

A continuation of AFR 1010. One 1-hour lecture and one 1 1/2-hour lab per week.

AFR 2010-1 The Evolution of USAF Air and Space Power 1 (1 + 0)

One 1-hour lecture and one 1 1/2 hour lab per week. This course is a study of air power from balloons and dirigibles through the jet age; a historical review of air power employment in military and nonmilitary operations in support of national objectives; a look at the evolution of air power concepts and doctrine; and an introduction to the development of communicative skills.

AFR 2020-1 The Evolution of USAF Air and Space Power 2 (1 + 0)

A continuation of AFR 2010. One 1-hour lecture and one 1 1/2-hour lab per week.

AFR 3010-3 Air Force Leadership Studies 1 (3 + 0)

Two 1 1/2-hour seminars plus one 1 1/2 hour lab per week. An integrated management course emphasizing concepts and skills required by the successful manager and leader. The curriculum includes individual motivational and behavioral processes, leadership, communication, and the group dynamics, providing the foundation for the development of the junior officer's professional skills (officership). Course material on the fundamentals of management emphasizes decision making and the use of analytic aids in planning, organizing, and controlling in a changing environment. Organizational and personal values (ethics), management of change, organizational power, politics, managerial strategy, and tactics are discussed within the context of military organization. Actual Air Force case studies are used throughout the course to enhance the learning and communication process.

AFR 3020-3 Air Force Leadership Studies 2(3+0)

Two 1 1/2-hour seminars and 1 1/2-hour lab per week. A continuation of AFR 3010. Basic managerial processes are emphasized, while group discussion, case studies and role playing as learning devices are employed. Emphasis on communicative skills development is continued.

AFR 4010-3

National Security Forces in Contemporary American Society 1 (3 + 0) Two 1 1/2-hour seminars and one 1 1/2-hour lab per week. This course is a study of U.S. National Security Policy which examines the formulation, organization, and implementation of national security policy; context of national security; evolution of strategy; management of conflict; and civil-military interaction. It also includes blocks of instruction on the military profession/officership, the military justice system and communicative skills. This course is designed to provide future Air Force officers with the background of U.S. National Security Policy so they can effectively function in today's Air Force.

AFR 4020-3 National Security Forces in Contemporary American Society 2 (3 + 0)

Two 1 1/2-hour seminars and one 1 1/2 hour lab per week. A continuation of AFR 4010. Special themes include defense strategy and conflict management, formulation/implementation of U.S. defense policy, and organizational factors and case studies in policy making, military law, uniform code of military justice, and communicative skills.

ANTHROPOLOGY

ANT 1010-3 Physical Anthropology and Prehistory (2 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

This is an introductory course covering the basic concepts and position of humans in nature, human and cultural evidence of the past, and modern diversity. A brief survey of the discipline of anthropology and its subdivisions will also be included. The laboratory will include firsthand experience in identifying fossil hominids, lithic technology, and human variation. (General Studies—Level II, Natural Science) (GT-SC2)

ANT 1310-3 Introduction to Cultural Anthropology (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement

> This course provides a comparative perspective on human behavior and thought by exploring a variety of world cultures in the domains of kinship, social organization, language, ecological adaptation, economics, and religion. The applied aspects of anthropology are also investigated. (General Studies—Level II, Social Sciences) (GT-SS3)

ANT 2100-3 Human Evolution (3 + 0)

ANT 1010 or permission of instructor Prerequisite:

An intense look at Darwin's century and the ideas that have contributed to our present understanding of human evolution. The hominid fossil record is presented as living history in light of what fossils reveal about the populations they represent, their behavior, and their social organization.

ANT 2330-3 Cross-Cultural Communication (3 + 0)

Prerequisite: permission of instructor or satisfaction of Level I General Studies course requirements

Designed to help the nonspecialist gain an understanding of culturally conditioned behavior as it relates to intercultural relations among people of different nations. The course will move from the fundamentals of culture, language, and meaning to viewing the cultural barriers causing communication interference and failure across cultures. (General Studies—Level II,

Social Sciences; Multicultural)

ANT 2350-3 African Peoples and Cultures (3 + 0) (AAS 2300)

Examines traditional cultures of African peoples. Gives added understanding of culture and people in relation to human problems and experiences. Credit will be granted for only one

prefix: ANT or AAS.

ANT 2360-3 Living Culture and Language of the Mexican and Chicano (3 + 0) (CHS 2000)

Prerequisite: CHS 1000 or CHS 1020

Traces the fusion of cultures and dialects of the Spanish-speaking Southwest into elements that characterize Chicano intracultural and intercultural diversity. Credit will be granted for

only one prefix: ANT or CHS.

ANT 2640-3 Archaeology (3 + 0)

This course will be an examination of how archaeologists discover and interpret the material

remains of human behavior from the past.

ANT 2710-3 Archaeological Field Research (1 + 4)

Prerequisite: ANT 2640 or equivalent, or permission of instructor

Archaeological field investigations that may consist of surveying, mapping, testing of sites, and/or excavations. Course may be repeated for up to a maximum of six hours. No more

than three credit hours may be applied toward a major or minor in anthropology.

ANT 3110-3 Human Variation (3 + 0)

Prerequisite: ANT 1010 or permission of instructor

The varied forms and features of humanity can be grouped and understood in terms of their adaptive costs and benefits. Modern appreciation of human variation lies in the processes that have developed differing human populations. The course will search out the fundamen-

tal features of these processes and analyze them.

ANT 3120-3 Mummies of the World (3 + 0)

Prerequisite: ANT 1010 or permission of instructor

This course offers instruction in the field of physical anthropology in the particular subfield of bioarchaeology. The course examines the processes of mummification and the occurrence of mummies around the world. It identifies where in the world mummies have been found, how they have been studied, what environments are necessary for mummification, how intentional human interference affects the process and what these kinds of practices can

reveal about the cultures involved.

ANT 3150-3 Primate Studies (3 + 0)

Prerequisite: ANT 1010 or permission of instructor

From the jungle to the zoo, non-human primates are fascinating. Through observation and recent contributions from the field and laboratory, the student will analyze the behavior and structure of living primates. Resulting interpretations will assist in understanding human

behavior and human development.

ANT 3250-3 Doing Anthropology (3 + 0)

Prerequisite: ANT 1310 or permission of instructor

An application of the special ethnographic skills related to the collection, management, interpretation, and analysis of cultural information. The study will include examination and prac-

tice of participant observation and focused ethnography.

ANT 3300-3 Exploring World Cultures: Variable Topics (3 + 0)

Prerequisite: ANT 1310 or permission of instructor

The focus of study will be an exploration of selected non-Western cultures. Using films and various ethnographic procedures, the student learns how culture—and by extension, human culture—is a living thing shaped by the people who carry it. The course may be repeated

under different topics.

ANT 3310-3 Ethnography of North American Indians (3 + 0)

ANT 1310 or permission of instructor Prerequisites:

Studies the nature and consequences of distinctive Indian cultures that occupied North America at the time of European contact. Includes a close analysis of the many different aspects of social organization and environment that contribute to the unique cultures we call American Indian. (General Studies-Level II, Social Sciences; Multicultural)

ANT 3340-3 Native Americans in Historical Perspective (3 + 0)

Prerequisite: ANT 1310 or permission of instructor

A survey of the response of Native American societies to the overrunning social, economic, and political structures of EuroAmerica. Broad areas of cultural change are covered, and the fundamental issues of land, economic development, and cultural integrity are looked at.

Vanishing Cultures and Peoples (3 + 0) ANT 1310 or permission of instructor ANT 3350-3

Prerequisite:

Industrial civilization is now completing its destruction of technologically simple tribal cultures. Intense contextual and comparative analysis of the cultures undergoing drastic modification enhances awareness of the fundamental right of different lifestyles to coexist and develop analytical skills to help understand cultural changes.

ANT 3390-3 **Understanding Cultures (3 + 0)**

Prerequisite: ANT 1310 or permission of instructor

Cultural norms have an enormous influence over the kinds of behavior found in any society. Using contemporary theories of anthropology, the course expands on the means to both understand and mitigate cross-cultural differences.

ANT 3460-3 Social Organization and Evolution (3+0)

ANT 1310 or permission of instructor Prerequisite:

> An intensive look at forms of social organization, with a focus on kinship, arranged in evolutionary sequence from the hunting-and-gathering band to the complex social networks of a complex society.

ANT 3480-3 Cultural Diversity in Health and Illness (3 + 0)

permission of instructor and satisfaction of Level I General Studies course requirements Prerequisites:

Prepares students to understand the many different viewpoints and concepts related to health and illness in other cultures. Emphasizes the need and means to provide culturally appropri-

ate health care. (General Studies—Level II, Social Sciences; Multicultural)

ANT 3610-3 Archaeology of North America (3 + 0)

ANT 1010 or permission of instructor Prerequisite:

Prehistory of North America emphasizing the peopling of the New World, earliest Indian cul-

tures, and later regional developments.

ANT 3620-3 South American Archaeology (3 + 0)

ANT 1010 or equivalent, or permission of instructor Prerequisite:

This course focuses on the origins and developments of prehistoric South American cultures. Starting with the first people to arrive in South America and culminating in the conquest of the Incas by the Spanish, coverage ranges from the Andean highlands to the tropical jungles of the Amazon.

ANT 3660-3 Ancient American Civilizations (3 + 0)

ANT 1010 or equivalent, or permission of instructor Prerequisite:

The course will concentrate on the study of the emergence, culmination, and fall of Central and South American civilizations. The cultural situation of precivilization America will be presented at the beginning of the course. Throughout, the contributions of American civili-

zations to our culture will be stressed.

ANT 3680-3 Practical Archaeology (3 + 0)

ANT 2640 or equivalent, or permission of instructor Prerequisite:

A course emphasizing the practical application of selected archaeological methods and techniques consisting of lectures and demonstrations. The students will have an opportunity to get acquainted with various field and laboratory equipment and work with archaeological material. Active class participation is expected. The application of computers in archaeological work will also be discussed.

ANT 4400-3 Recent Issues in Anthropology: Variable Topics (3 + 0)

Prerequisite: permission of instructor

An examination of current issues related to new discoveries and ongoing or completed work in archaeology, cultural anthropology, or physical anthropology. Each section will address different areas of anthropology and may be repeated under different topics.

ANT 4410-3 Paleopathology: The Archaeology of Disease (3 + 0)

Prerequisite: Satisfaction of Level I and II General Studies course requirements and senior standing; or

permission of instructor

This course is an examination of how anthropologists utilize current techniques and information in the analysis and discovery of disease, diet and injury on fossil and human skeletal material. Some analysis of archaeological techniques and impact of burials will be reviewed as well as various means of morphological analysis. (Senior Experience)

ANT 4710-3 Advanced Archaeological Field Research (1 + 4)

Prerequisite: permission of instructor

Advanced-level archaeological field work, including survey design, map-making, transit survey, sampling strategies, artifact conservation, student supervision of excavations and survey, field sample preparation, computer coding of artifact types and distribution, archival research, site recording, and report writing. Course may be repeated for up to a maximum of six hours. No more than three credit hours may be applied toward a major or minor in anthropology.

ART

SEE PAGE 392 FOR ART HISTORY, THEORY AND CRITICISM

ART 1101-3 Two-Dimensional Design (0 + 6)

This course examines art elements and principles of two-dimensional design with emphasis on visual perception and problem solving using a variety of media.

ART 1141-3 Drawing I (0 + 6)

This course introduces drawing as a conceptually-based art making medium. Students practice fundamental drawing skills using a variety of black and white media and techniques while learning to apply line, shape, value, and texture to creative visual problem solving and the expression of ideas.

ART 1271-3 Basic Photography Methods (0 + 6)

This course introduces basic photographic problem-solving dealing with technical and aesthetic concerns. Students learn black and white film exposure, development and printing. This course is oriented to the non-art major.

ART 1300-4 Introduction to Woodworking (2 + 4) (IND 1010)

An introductory course designed to give the student basic information about woods, their selection and use, and to provide the basic skill development in the use of selected woodworking tools, machines and practices. Finishing and preservation of wood will also be studied and utilized. Credit will be granted for only one prefix: ART or IND.

ART 1501-3 Three-Dimensional Design (0 + 6)

Prerequisite: ART 1101 or permission of instructor

This course examines art elements and principles of three-dimensional design with emphasis on visual perception and problem solving using a variety of materials.

ART 1531-3 Introduction to Digital Art and Design (0+6)

Pre/Corequisite: ART 1101 or permission of instructor

This course introduces the computer as a tool for artists and designers. It develops students' visual language and provides an introduction to image creation, digital painting, and photographic manipulation. Students learn to conceptualize ideas in artwork, navigate software interfaces, and present artwork in an appropriate manner.

ART 1541-3 Drawing II (0 + 6)

Prerequisite: ART 1141 or permission of instructor

This course expands an understanding of fundamental drawing skills using color in a variety of media and techniques. Visual perception, problem solving, and the expression of ideas are stressed.

ART 2101-3 Color Theory and Practice (0+6)

Prerequisites: ART 1101 and ART 1141; or permission of instructor

> This studio course explores color perception, psychology, interaction and systems. Students develop a color vocabulary and learn to mix additive and subtractive color using a variety of media.

ART 2201-1 Art Lab for the Elementary Teacher (0+2)

Pre/Corequisites: ARTH 2100 or MUS 2040; or permission of instructor

This laboratory course enables students to apply the content and methods of art education, including the Colorado Model Content Standards for Visual Arts, to elementary curriculum planning, implementation, and assessment. Concepts from ARTH 2100/MUS 2040, An Integrated Approach to Art and Music, will be developed for the purpose of integrating art into the elementary curriculum. Students will apply creative and critical thinking to solve artistic problems in the art studio. Appropriate methods for integrating art into the elementary curriculum, including literacy and mathematics, will be explored.

ART 2222-3 Visual Thinking(0 + 6)

Prerequisites:

ART 1101 and ART 1531; either (ARTH 1600, ART 1141, and ART 1501) or (COM 2430 and

JRN 1010); or permission of instructor

This course provides an introduction to the fundamental theories and principles of communication design. Emphasis is on creative problem solving techniques, processes, and concepts which integrate specific design technologies. Within this context students will gain an awareness of how design functions broadly within society today as a provocative communicative force.

ART 2225-3 Typography I (0+6)

Prerequisites:

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1531; or permission of instructor

Pre/Corequisites: ARTH 1700 and ART 2101

This course provides an introduction to the study of the letterform as a cornerstone of communication design. It focuses on how typography can be used as a communicative device as well as a graphic, compositional and expressive element. Areas explored include letterform anatomy, letterform analysis, measuring systems, typographic identification, and practical issues of setting and using type effectively.

ART 2237-3 Constructing the Digital Image (0 + 6)

Prerequisites:

ART 1101 and ART 1531; either (ARTH 1600, ART 1141, and ART 1501) or (COM 2430 and

JRN 1010); or permission of instructor

This course explores the construction of digital artwork using photographic manipulation software as the primary tool. Technically and conceptually appropriate solutions are examined within the context of technology. Students explore technical, historical, and critical issues of digital art.

ART 2611-3 Ceramics I (0+6)

Prerequisite:

ARTH 1600, ART 1101, ART 1141, ART 1501; ART 1541 or ART 1531 or IND 1470; or per-

mission of instructor

Pre/Corequisites: ARTH 1700 and ART 2101

This course introduces students to the basic hand-building techniques and technical knowledge needed to work and fire stoneware ceramics. Students will develop both a conceptual understanding and practical knowledge of some of the ways in which three-dimensional ceramic form functions on a visual level.

Typography II (0 + 6) ART 2625-3

Prerequisites:

ART 2101, ART 2222 and ART 2225; or permission of instructor; student must provide a

suitable laptop computer

This course explores visual problem solving by experimenting with typographic form, function, meaning, and aesthetics. Students refine their typographic skills while expanding conceptualization and intent within given assignments. Emphasis is on broadening the student's ability to assert meaning through typography experimentation.

ART 2644-3 Life Drawing I (0+6)

Prerequisites:

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1541; or permission of instructor This course focuses on literal and interpretive investigations of the human figure including study of basic anatomy for artists, using a variety of media and techniques.

ART 2651-3 Jewelry Design and Metalsmithing I (0+6)

ARTH 1600, ART 1101, ART 1141, ART 1501; ART 1541 or ART 1531 or IND 1470; or per-Prerequisite:

mission of instructor

ARTH 1700 and ART 2101 Pre/Corequisite:

This course deals with traditional and contemporary approaches to the creation of handcrafted jewelry and precious or semi-precious metal objects. Basic fabricating techniques including hollow construction, and surface embellishment, basic metal forming techniques,

simple stone setting, wax carving, and lost-wax casting are introduced.

ART 2661-3 Painting I (0+6)

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1541 or ART 1531 or IND 1470; or Prerequisites:

permission of instructor

Pre/Corequisites: ARTH 1700 and ART 2101

This course will explore the materials and techniques of acrylic painting, including applica-

tion, color mixing, creative visual problem solving, and the study of composition.

ART 2666-3 Watermedia I (0 + 6)

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1541 or ART 1531 or IND 1470; or Prerequisites:

permission of instructor

Pre/Corequisite: ARTH 1700 and ART 2101

This course introduces the traditional transparent watercolor medium and opaque and mixed media techniques and approaches. Visual problem solving, individualized approach to content, and the expression of ideas are stressed.

ART 2671-3 Photography I (0+6)

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1531; or permission of instructor Prerequisites:

Pre/Corequisites: ARTH 1700 and ART 2101; or permission of instructor

This course is an introduction to fine art black and white photography including materials, techniques, and concepts of image making. Exploration and usage of basic light-sensitive materials and an introduction to ideas about the art of picture making in relation to special

course projects are included.

ART 2681-3 Printmaking I (0+6)

ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1541 or ART 1531 or IND 1470, or Prerequisites:

permission of instructor

Pre/Corequisites: ARTH 1700 and ART 2101

This course introduces the student to monotype, intaglio, photo-digital, and relief printmaking methods. Students explore fine art techniques and image manipulation in creating

diverse prints.

ART 2691-3

Sculpture I (0 + 6)
ARTH 1600, ART 1101, ART 1141, ART 1501, and ART 1541 or ART 1531 or IND 1470; or Prerequisites:

permission of instructor

Pre/Corequisites: ARTH 1700 and ART 2101

This course introduces students to sculptural thinking and problem solving in three dimen-

sions. Sculptural ideas and forms are explored in basic media and related techniques.

ART 3211-3 Ceramics II (0+6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2611; ART 1541 Prerequisites:

or ART 1531 or IND 1470; or permission of instructor

This course is a continued study of ceramic techniques with a primary emphasis on learning to use the potter's wheel as a creative tool. Students employ wheel-thrown and hand-building

skills to produce altered forms. Ceramic history and ceramic science are discussed.

ART 3215-3 Mold Making for Ceramics (0+6)

Prerequisite: ART 2611 or permission of instructor

This course explores the creation and use of plaster molds from three-dimensional objects, including several types of plaster molds for reproducing originals in slipcast clay or cast paper. Applications to professional ceramic production and experimental issues in ceramic

art are discussed.

ART 3222-3 Design Research Methods (2 + 2)

ART 2222 and ART 2225; or permission of instructor Prerequisites:

This course examines how designers conduct pertinent research in order to produce relevant and meaningful visual communications solutions. Through specific assignments, students learn how to harness meaning and potential in their work by applying investigative processes, formulations, and strategies. Students work in teams putting theory into action, which

informs individual design practice thereafter.

ART 3225-3 Typography III (0+6)

ART 2222 and 2625; or permission of instructor; student must provide a suitable laptop Prerequisites:

computer

Pre/Corequisite: ART 3222

This course offers a more advanced study of typographic design with an emphasis on the production of design solutions for offset lithography. Students design complex material that explores the function of typography in context. Prepress production techniques are applied to final design solutions allowing students to participate in the full scope of designing for

print applications.

ART 3235-3 Video Art (0 + 6)

ART 2237, ART 1101 and ART 1531; either (ARTH 1600, ARTH 1700, ART 1141, ART 1501 Prerequisites:

and ART 2101) or (COM 2430 and JRN 1010); or permission of instructor

This course provides an introduction to the use of video imaging as art. Technical components include preproduction, production, and an introduction to postproduction. The history, theory, and criticism of preproduction and production of experimental video art of the second half of the 20th century are discussed. Students will be required to provide an external

hard drive that meets department specifications.

ART 3241-3 Drawing III (0+6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1541, and ART 2101; or Prerequisites:

permission of instructor This course builds on the foundations of drawing, allowing for greater depth in conceptualization and technique skill development. Emphasis is on creation of work that is initiated and

independently developed by the student and expresses personal creative vision.

ART 3244-3 Life Drawing II (0+6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1541, ART 2101, and ART Prerequisites:

2644; or permission of instructor

This course requires the student to apply knowledge of human anatomy to drawing the human figure. Students extend conceptualization skills and expand use of varied media

and techniques.

ART 3251-3 Jewelry Design and Metalsmithing II (0 + 6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2651; ART 1541 Prerequisites:

or ART 1531 or IND 1470; or permission of instructor

This intermediate level course develops the student's skills in metalworking techniques including chasing, repoussé, mechanical structure exploration, various stone settings, alternative material handling, chain making, and fine silver fusing. Personal expression is explored

through aesthetic, concept, and design development research for each project.

Painting II (0+6) ART 3261-3

Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2661; ART 1541

or ART 1531 or IND 1470; or permission of instructor

This course introduces the materials and techniques of the oil painting medium, with emphasis on compositional analysis of historic and contemporary painting. Course emphasis is on

developing a unique, individualized approach to content and media expression.

ART 3271-3 Photography II: Black and White (0 + 6)

Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1531, ART 2101, and ART

2671; or permission of instructor

This course requires students to produce black and white photography projects that broaden technical skills while expressing a personal vision. Critical theory and historical issues in art

production are addressed.

Printmaking II: Lithography (0+6)ART 3281-3

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2681; and ART 1541 or ART 1531 or IND 1470; or permission of instructor Prerequisites:

This course is an introduction to fine art hand-pulled lithography where original black and white and color prints are produced using traditional and contemporary techniques including photodigital applications. Îmage production stresses aesthetic and conceptual development.

ART 3283-3 Printmaking II: Intaglio (0 + 6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2681; ART 1541 Prerequisites:

or ART 1531 or IND 1470; or permission of instructor

This course develops an expanded knowledge of traditional and contemporary fine art, handpulled intaglio and relief processes with an emphasis on color printing techniques. Image production stresses personal aesthetic and conceptual development.

ART 3285-3 Printmaking II: Screenprinting (0+6)

Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2681; ART 1541

or ART 1531 or IND 1470; or permission of instructor

This course develops an extensive knowledge of traditional and contemporary fine art, hand-pulled screenprinting processes with an emphasis on water-based, color, and photodigital techniques. Image production stresses personal aesthetic and conceptual development.

ART 3287-3 Monotype Printmaking (0+6)

Prerequisites: ARTH 1600, ARTH 1700, ART 1141, ART 1501; ART 1541 or ART 1531; or permission of

instructor

This course provides instruction in specific methods, materials, and equipment associated with the production of monotypes and monoprints. The creation of print images emphasizes

development of an unique aesthetic and personal concept.

ART 3290-3 Photojournalism I (0 + 6) (JRN 3600)

Prerequisites: art core, ART 1271 or ART 2671, ART 1101 and JRN 1100

This course provides an introduction to photojournalism and techniques used in photography for the print media. Students must have a working knowledge of 35mm cameras and

darkroom procedures. Credit will be granted for only one prefix: ART or JRN.

ART 3291-3 Sculpture II (0 + 6)

Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2691; ART 1531

or ART 1541 or IND 1470; or permission of instructor

This course continues exploring creative approaches to sculptural object production. Personal expression is encouraged and practiced through aesthetic, concept, and design develop-

ment research.

ART 3293-3 Functional Sculpture (0 + 6)

Prerequisite: ART 2691 or permission of instructor

This course is designed to develop the individual's ability to design functional objects with an emphasis on sculptural concerns. The course provides instruction in the specific use of

materials and technical processes for both traditional and non-traditional materials.

ART 3295-3 Glassworking (0+6)

Prerequisite: ART 2691 or permission of instructor

This studio course is designed to give students a broad understanding of working with glass. The course covers technical information on the properties of glass, the history of glass working, kiln operation, and glass techniques at various temperatures. Note: glass blowing is not covered in this course.

ART 3301-3 The Artist's Book (0 + 6)
Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101; ART 1531 or ART 1541

or IND 1470; or permission of instructor

This studio course will deal with the book as an art object, emphasizing structure, craft and conceptual ideas. Students will build various traditional and non-traditional book types and

provide display methods for books in an exhibition context.

ART 3321-3 Illustration for Communication Designers(0 + 6)

Prerequisites: ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2225; ART 1531

or ART 1541; or permission of instructor

This course allows the student who is studying design to address visual communication strategies and solutions through hand-rendered illustrative means. Students will be encouraged to experiment with a wide variety of media and techniques though concept-driven coursework. In addition, the course will give students insights into the demands of a professional

illustration career.

ART 3325-3 Illustration for Industrial Designers (0+6)

Prerequisites: ARTH 1700, ART 1101, ART 1141, ART 1501 and IND 2450, or permission of instructor

This course allows the student who is studying industrial design to address visual communication strategies and solutions through hand-rendered illustrative means. Students experiment with a wide variety of media and techniques in order to visualize individual concepts. In addition, students refine their drawing and rendering skills while developing a personal

language that will translate to their studies in industrial design.

ART 3501-3 Mixed Media Exploration I (0+6)

Prerequisites:

at least junior standing; ARTH 1600, ARTH 1700; ART 1101, ART 1141, ART 1501, and ART 2101; ART 1531 or ART 1541 or IND 1470; two of the following: ART 2222, ART 2237, ART 2611, ART 2644, ART 2651, ART 2661, ART 2671, ART 2681, ART 2691; or permission of

In this course students develop individual verbal and visual responses to the transformation of concepts and ideas into art using a variety of media. Students will work individually and collaboratively.

ART 3601-4

Prerequisites:

Introduction to Art Education (3 + 2)
ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1531, and ART 2101; 6 addi-

tional semester hours of ARTH or ART coursework; or permission of instructor

This lecture/field experience course introduces the historical, philosophical, social, political, legal, psychological, and educational concepts that have influenced the development of art education in the United States. The current status of advocacy for the arts and art education within the context of general education is explored. Thirty hours of field experiences provide practical application of concepts and standards of K-12 art classrooms, and include performance evident of beginning teaching skills.

ART 3605-2 The Inclusive Music and Art Classroom (1 + 2) (MUS 3390)

Pre/Corequisites: MUS 2340 or ART 3601 or permission of instructor

This course provides a survey of various exceptionalities of K-12 students, ranging from mild to severe, with a focus on meeting the needs of these students in music and art classrooms. Information about child abuse and medical conditions, and their possible effects on student learning and behavior, is provided. Teacher- candidates are introduced to special education processes with music and art content that facilitates the learning process of students with special needs, including strategies and curriculum adaptations for inclusion in music and art classrooms. Credit will be granted for only one prefix: ART or MUS.

ART 3611-3 Ceramics III (0+6)

Prerequisite:

ART 3211 or permission of instructor

This course extends the student's knowledge of ceramic processes and the science of materials used in the ceramics studio. Emphasis is placed on technical skills and a balanced inquiry into historical, topical and theoretically based artwork.

ART 3615-3 Low-Fire Ceramics (0 + 6)

Prerequisite:

ART 2611 or permission of instructor

This course introduces low-fire ceramic materials and processes. Students explore oxidation firing, raku, and sagger firing processes and effects.

ART 3623-3 Identity and Systems Design (0+6)

Prerequisite: Pre/Corequisite: ART 2222 and ART 2625; student must provide a suitable laptop computer

ART 3222

This course focuses on the historical and contemporary development of identity marks, branding, and identity systems design. Students will investigate branding processes, create communicative identity marks, and apply an intentional system of thought to design strategy. Emphasis is on creating strong, clear conceptualization processes over a series of related communication pieces for a given identity problem.

ART 3625-3 Narrative Design (0 + 6)

Prerequisites:

ART 2222, ART 2625, and ART 3222; or permission of instructor; student must provide a

suitable laptop computer

Pre/Corequisite:

ART 3623 This course explores designing for linear vs. non-linear narrative structures. Diverse design principles and ideologies are covered. Exploration focuses on inventive formulation of form and content and may be two dimensional, three dimensional, or digitally-based.

ART 3631-3 Interactive Multimedia Art (0 + 6)

Prerequisites:

ART 1531, ART 2222, ART 2237 and ART 3235; or permission of instructor

This course introduces multimedia authoring software as the technology through which artwork is created. Students will create artwork that integrates contemporary theory, conceptual development, interactivity and animation into visual language.

ART 3635-3 Web Art I (0 + 6)

Prerequisites:

ART 1531, ART 2222, ART 2237 and ART 3235; or permission of instructor

This course introduces the Internet as the site where art content is realized. Using web authoring software students will create websites as art integrating conceptual development, navigational hierarchy, interactivity, and personal vision.

ART 3641-3 Drawing IV (0+6)

ART 3241 or permission of instructor Prerequisite:

This course continues to develop traditional approaches to drawing as well as the creation of artwork with less traditional media. Material and technique exploration is focused on student's needs relative to project development and may include production in a variety of

media. Personal concept development is stressed throughout the course.

ART 3644-3 Drawing the Human Head (0+6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 1541 and ART 2101; or Prerequisites:

permission of instructor

This course focuses on drawing the human head from objective and subjective creative perspectives. A variety of media and techniques are explored which embrace literal and inventive

explorations of anatomy and surface forms.

ART 3651-3 Jewelry Design and Metalsmithing III (0+6)

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2651, ART 3251; ART 1531 Prerequisites:

or ART 1541 or IND 1470; or permission of instructor

The course explores advanced metalworking techniques such as mechanical structure exploration, sinking, raising, forming, mold making, and multi-wax production practice; alternative material use such as enameling; textile technique use in metal; anodizing/electronic reactive-metal; professional practice; and investigation of past and present metal work. Distinctive personal expression and artistic growth are stressed along with aesthetic, conceptual,

and design development research.

ART 3653-3 Casting for Jewelers and Metalsmiths (0 + 6)

ART 3251 or permission of instructor Prerequisite:

This course applies casting techniques, including wax carving, wax casting processes, alternative direct casting methods, mold making, multicasting methods, wax mold stone setting, and double casting processes, to the creation of art jewelry and precious metal sculptures.

ART 3655-3 Enameling for Jewelers and Metalsmiths (0 + 6)

Prerequisites: ART 3251 or permission of instructor

This course applies basic, intermediate, and advanced enameling techniques to the creation of art jewelry and precious metal objects. Techniques include cloisonné, champlevé, and pli-

que-à-jour among others.

ART 3657-3 Textile Techniques in Metal (0 + 6)

ART 3251 or permission of instructor Prerequisite:

This course allows students to learn various textile techniques such as weaving, knitting, crochet, braiding, basketry, knotting, and netting while working in precious and non-precious metals. Students apply these techniques to the creation of art jewelry and metal art objects.

ART 3661-3 Painting III (0+6)

ART 3261 or permission of instructor Prerequisite:

> This course continues the development of methods of painting through exploration of materials, techniques, composition, and concepts. Students create objective and subjective paint-

ings that include the human figure.

Watermedia II (0 + 6) ART 3666-3

ARTH 1600, ARTH 1700, ART 1101, ART 1141, ART 1501, ART 2101, ART 2666; ART 1541 Prerequisites:

or ART 1531 or IND 1470; or permission of instructor

This course explores advanced transparent and opaque watermedia as well as mixed media techniques. Students will learn to choose techniques and media to enhance their expressive content. Course emphasis is on developing a unique, individualized approach to content and

media expression.

ART 3671-3 Photography III: Color (0 + 6)

Prerequisites: ART 2237 and ART 3271; or permission of instructor

This course requires the intermediate photography student to use color photography as an expressive medium in order to gain an understanding of how images function in our culture. The course emphasizes critical thinking and intelligent image making through readings, presentations, and idea development. Technical exercises and readings help the student to acquire the skills necessary to produce color artworks. Both wet and digital processes are taught.

ART 3681-3 Printmaking III (0 + 6)

Prerequisites: two of the following: ART 3281, ART 3283, ART 3285; or permission of instructor

This course focuses on developing the student's ability to analyze the conceptual quality of works produced. Students will further explore personal direction and technical resolve within

a body of artwork.

ART 3691-3 Sculpture III (0 + 6)

Prerequisite: ART 3291 or permission of instructor

This course continues to develop traditional approaches as well as exploring less traditional multi-media and environmental sculptural work. Material exploration is focused on student's needs relative to project development and may include production in a variety of media. Per-

sonal concept development is stressed throughout the course.

ART 4201-4 Art Methods K-12(1+6)

Prerequisite: ART 3601 or permission of the instructor

This lecture/studio/field experience course, preparing K-12 art specialists, is designed to create and implement visual art curriculum through theoretical and practical approaches to art education. Standards based methodologies will be developed and then tested in kindergarten through high school art classrooms. Fifty hours of approved field experience provide practi-

cal application of concepts and standards of K-12 art classrooms.

ART 4211-3 Ceramics IV (0 + 6)

Prerequisite: ART 3611 or permission of instructor

This course develops students' critical thinking ability through research of topics within contemporary ceramic arts and experimentation with new techniques. It emphasizes the role and responsibility of art; the relationship of the artist to a broader cultural, social and economic context; and visual aesthetics. Students continue to develop their technical skills and the aes-

thetic expression in their works of ceramic art.

ART 4222-3 Dimensional Design (0 + 6)

Prerequisite: ART 3625 or permission of instructor; student must provide a suitable laptop computer

This course challenges students to create solutions for various three-dimensionally oriented design problems. Students experiment with notions of form, function, and visual communication as related to the exploration of packaging, wayfinding systems, exhibition design, or other related dimensional design problems. Emphasis is on investigative use of materials, development of economic and inventive forms for the specific spatial problem, and the for-

mal application of design.

ART 4223-3 Community-Based Design (0 + 6)

Prerequisite: ART 3625 or permission of instructor; student must provide a suitable laptop computer

This course challenges students to formulate design solutions that function to create positive change in a given social environment. By assessing the narrative history of people, places, events and issues that are regionally accessible, students create highly conceptual solutions

that respond to social and cultural concerns within local communities.

ART 4225-3 Concepts in Motion (0 + 6)

Prerequisite: ART 3625 or permission of instructor; student must provide a suitable laptop computer

This course challenges the student to create interpretive design solutions for complex interactive problems which rely primarily upon motion and time to communicate visual ideas. Students explore these highly conceptual problems through use of digital technology. Course emphasis is on dynamic, thoughtful, and appropriate visual communication solutions.

ART 4235-3 Web Art II (0 + 6)

Prerequisites: ART 1531, ART 2222, ART 2237, and ART 3635; or permission of instructor

This course extends knowledge gained from Web Art I to include non-linear web narratives,

interactivity, and construction of image-based and text-based animation.

ART 4241-3 Drawing V(0+6)

Prerequisite: ART 3641 or permission of instructor

The course emphasizes further development of individual ability to express ideas and concepts in various drawing techniques and media. Students also begin assessing personal direction in the creation of a unified body of work and individual creative research. Career options are introduced in the possible pursuits of exhibitions, public art projects, and business oppor-

tunities after graduation.

ART 4244-3 Life Drawing III (0+6)

Prerequisite: ART 3244 or permission of instructor

This course allows the student to continue to experiment with representations of the human

form and to determine a personal approach to a body of drawings.

ART 4251-3 Jewelry Design and Metalsmithing IV (0+6)

Prerequisites: ART 2651, ART 3251, and ART 3651; or permission of instructor

This course emphasizes advanced metalworking techniques such as mechanical structure exploration, die forming, alternative material use, professional practice, and portfolio devel-

opment. Artistic growth and professional maturity are stressed.

ART 4261-3 Painting IV (0+6)

ART 3661 or permission of instructor Prerequisite:

This course continues the development of methods of painting through exploration of materials, techniques, composition, and concepts. The student will develop an individual approach

to painting.

ART 4266-3 Figure Painting (0+6)

ART 2644 and ART 3661; or permission of instructor Prerequisites:

This course focuses on literal and interpretive investigations of the human figure using a vari-

ety of painting techniques.

ART 4271-3

Photography IV: Theory and Practice (0 + 6) ARTH 3790 and ART 3671; or permission of instructor Prerequisites:

This course emphasizes critical thinking and intelligent image making through readings, presentations, and students' idea development. The student investigates the use of photography as an expressive medium to position original artwork in relation to contemporary art.

ART 4281-3 Printmaking IV (0+6)

Prerequisite:

ART 3681 or permission of instructor This course allows students to create a cohesive body of work using research and experimen-

tation specific to individual conceptual and technical direction.

ART 4290-3 Photojournalism II (0+6) (JRN 4600)

ART 1271 or ART 2671, ART 3290 or permission of instructor Prerequisites:

This course provides advanced training in photojournalism and techniques used in photography for the print media. Students must have a working knowledge of 35mm cameras and

darkroom procedures. Credit will be granted for only one prefix: ART or JRN.

ART 4291-3 Sculpture IV (0+6)

Prerequisite: ART 3691 or permission of instructor

This course emphasizes further development of individual ability to express ideas and concepts in various sculptural media including installation and site-specific (public art) sculpture. Students also begin assessing personal direction in the creation of a unified body of work and individual creative research. Career options are introduced in the possible pursuits

of exhibitions, public art projects, and business opportunities after graduation.

ART 4327-3 Illustration II (0+6)

Prerequisite: ART 3321 or ART 3325 or permission of instructor; student must provide a suitable laptop

This course in illustration technique and visual concept development focuses on the integration of digital and hand-rendered methods within a communication design context. It expands upon the language and application of the conceptual image with the increasing

complexity of project variables.

ART 4501-3 Mixed Media Exploration II (0 + 6)

Prerequisite: ART 3501 and at least junior standing; or permission of instructor

This course further develops advanced levels of production and critique that anticipate highly individualized mixed media solutions to complex conceptual problem solving. Students will

work individually and collaboratively.

ART 4601-3 Installation Art (0+6)

ARTH 3080; ART 3501 or ART 3611 or ART 3625 or ART 3631 or ART 3635 or ART 3641 or Prerequisites:

ART 3651 or ART 3661 or ART 3671 or ART 3681 or ART 3691; or permission of instructor This studio course introduces the student to large-scale artwork that creates a multi-sensory experience. Students will create environments featuring sensory experiences that go beyond

the visual, extend into time, and incorporate a range of materials and media.

ART 4611-3 Ceramics V (0 + 6)

Prerequisite: ART 4211 or permission of instructor

This course requires the development of a self-directed body of work with a view toward the senior exhibition. Emphasis will be placed on developing and refining individual skills and exploring creative avenues of expression. Students continue work on glaze testing, finishing

processes and kiln firing.

ART 4625-3 Communication Design Internship (0 + 6)

Prerequisite: ART 3625 or permission of instructor

This course focuses on a communication design internship selected for its professional challenges and overall integrity. Students gain "real world" experiences in the discipline of design building upon previous knowledge gained in the classroom. Fieldwork requires a minimum

of 150 contact hours for three semester credit hours.

ART 4631-3 Digital Art Portfolio(0+6)

ARTH 3880 and ART 4235; or permission of instructor Prerequisites:

This course requires the production of a professional-quality, cohesive body of digital artwork. The student will refine a personal creative vision synthesizing technical, theoretical

and conceptual proficiencies.

Drawing VI (0+6) ART 4641-3

Prerequisite: ART 4241 or permission of instructor

This course requires the development of a self-directed body of artwork with a view toward the senior exhibition. Emphasis will be placed on developing and refining individual skills and exploring creative avenues of expression. Students ready a final portfolio and practice

professional skills to prepare a mature, cohesive body of work.

Jewelry Design and Metalsmithing V (0 + 6) ART 4651-3

Prerequisite: ART 4251 or permission of instructor

This course emphasizes advanced metalworking techniques including mechanical structure exploration, finishing techniques, alternative material use, and technical investigation. Students prepare a final portfolio and practice professional skills to prepare a mature, cohesive

body of work for a professional portfolio.

Painting V(0+6)ART 4661-3

ART 4261 or permission of instructor Prerequisite:

This course continues the development of painting through exploration of individualized

projects as the student prepares a mature, cohesive body of work.

ART 4671 Photography V: Portfolio (0 + 6)

Prerequisite: ART 4271 or permission of instructor

This course brings together the student's research and experimentation, culminating in the production of a professional, cohesive body of work. Students refine a personal creative vision

and become proficient at synthesizing technical, theoretical and conceptual concerns.

ART 4681-3 Printmaking V(0+6)

ART 4281 or permission of instructor Prerequisite:

This course culminates research and experimentation specific to individual conceptual and technical direction as exemplified through the production of a professional-quality, cohesive

body of work.

ART 4691-3 Sculpture V(0+6)

Prerequisite: ART 4291 or permission of instructor

This course continues the development of sculpture through exploration of individualized

projects as the student prepares a mature, cohesive body of artwork.

ART 4701-3 Senior Experience Studio: Portfolio Development and Thesis Exhibit (0 + 6)

Satisfaction of all Level I and Level II General Studies course requirements, Art major with Prerequisites:

senior standing, ARTH 4480; or permission of instructor ART 4611 or ART 4631 or ART 4241 or ART 4244 or ART 4651 or ART 4661 or ART 4671 or ART 4681 or ART 4691; or permission of instructor Pre/Corequisite:

This studio course requires the student to present finished work in a senior thesis show, produce a slide and/or CD portfolio, and write a concise statement about the intention and methodology of producing the body of work. This effort will result in the production of a body of work as well as an introduction to the profession of the studio artist. (Senior Experience)

ART 4703-6 Student Teaching and Seminar: Elementary K-6 (1+40)

Prerequisites:

successful completion of all requirements of the concentration in art education including ART 4201, elementary licensure program, and General Studies content courses; successful completion of Gateway requirements for each level (I-IV) of the elementary licensure program, including initial evaluation and sign-off of the program requirements; (e.g. teacher work sample/portfolio) by the education advisor

This is a supervised, full-time field experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision and assessment of learners (grades K-6). Eight hours of seminar is part of the field experience requirement. To pass this course, teacher-candidates must be minimally rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSCD recommendation for teacher licensure. Each student teacher is required to present a completed teacher work sample to the college supervisor and peers at a student teaching seminar. (Senior Experience)

ART 4704-6 Student Teaching and Seminar: Secondary 7–12 (1+40)

Prerequisites:

successful completion of all requirements of the concentration in art education including ART 4201 and the Secondary Education Program; initial sign off on program requirements

(e.g. teacher work sample/portfolio) by faculty advisor

Pre/Corequisite: ART 4703

This course is a supervised, full-time eight-week student teaching experience in an accredited public or private secondary school, providing increasing responsibility for the instruction, assessment, and supervision of an identified group of learners, 7-12 grade levels. Regularly scheduled observations and eight hours of seminar conducted by an appointed college supervisor are part of the student teaching requirement. Teacher candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colo-

rado Teachers to receive MSCD recommendation for teacher licensure. (Senior Experience)

ART 4721-3

Prerequisites:

Communication Design Senior Experience: Portfolio Development (1 + 4)

satisfaction of all Level I and Level II General Studies course requirements, ARTH 4480, ART

4225; senior standing; student must provide a suitable laptop computer

This capstone course is tailored to the needs of the communication design student. The student will present design work in a senior thesis show, produce a senior level portfolio in both physical and digital formats, create a final senior project, and write conceptual statements about specific design solutions. This effort will result in the production of a body of work that will assist the student in transitioning to the profession of communication design. (Senior Experience)

ART 4801-1-4 Studio Assistantship (0 + 2-8)

Prerequisite:

permission of instructor

This studio course allows the advanced student to put into use the studio skills learned in previous courses to assist faculty and other students through demonstrating and critiquing. Students will learn to run laboratories, maintain tools and equipment, mix chemicals (if appropriate), and handle and stock supplies in an appropriate manner. They will demonstrate techniques, and assist other students with technical and creative questions. (Variable credit; course may be repeated once for a maximum of six hours of credit in a different studio area or with significantly different duties.)

ART 4841-1-4 Directed Studies in Ceramics (0 + 2-8)

Prerequisite:

ART 4211 and permission of instructor

This course provides advanced, independent studio work in ceramics with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4842-1-4 Directed Studies in Communication Design (0 + 2-8)

Prerequisite:

ART 3625 and permission of instructor; student must provide a suitable laptop computer This course provides advanced, independent studio work in communication design with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques and skills learned in previous courses to develop an individ-

ual voice and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4843-1-4 Directed Studies in Digital Art (0 + 2-8)

Prerequisites: ART 4235 or ART 4631; and permission of instructor

This course provides advanced, independent studio work in digital art with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, software and skills learned in previous courses to develop a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4844-1-4 Directed Studies in Drawing (0 + 2-8)

Prerequisites:

ART 4241 or ART 4244; and permission of instructor

This course provides advanced, independent studio work in drawing with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4845-1-4 Directed Studies in Jewelry Design and Metalsmithing (0 + 2-8)

Prerequisite:

ART 4251 and permission of instructor

This course provides advanced, independent studio work in jewelry and metalsmithing with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4846-1-4 Directed Studies in Painting (0 + 2-8)

Prerequisites:

ART 3666 or ART 4261 or ART 4266; and permission of instructor

This course provides advanced studio work in painting with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4847-1-4 Directed Studies in Photography (0 + 2-8)

Prerequisite:

ART 4271 and permission of instructor

This course provides advanced, independent studio work in photography with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4848-1-4 Directed Studies in Printmaking (0 + 2-8)

Prerequisite:

ART 4281 and permission of instructor

This course provides advanced, independent studio work in printmaking with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4849-1-4 Directed Studies in Sculpture (0 + 2-8)

Prerequisite:

ART 4291 and permission of instructor

This course provides advanced, independent studio work in sculpture with emphasis on the production of finished work in preparation for the senior exhibition. The student will integrate techniques, materials and skills learned in previous courses to develop an individual style and create a coherent body of work. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4850-1-4 Directed Studies in Art Education (0 + 2-8)

Prerequisite:

ART 4201 and permission of instructor

This is an advanced course for art education students with emphasis on creation of a portfolio of exemplary projects for classroom use. (Variable credit; this course may be repeated once for a maximum of six hours total credit.)

ART 4873-3 Photography Assistantship (0 + 6)

Prerequisites:

ART 2271, ART 3271, and permission of instructor

This studio course allows the advanced photography student to serve as teaching assistant to a member of the faculty. The student learns to handle and stock supplies in an appropriate manner, and demonstrates techniques and assists other students with technical and creative questions.

ART HISTORY, THEORY AND CRITICISM (ARTH)

ARTH 1500-3 Art Appreciation Survey (3 + 0)

ENG 1010 or permission of instructor Prerequisite:

This course is an introduction to the design principles, materials, and techniques used by artists. A variety of art forms from different cultures and historical periods are also analyzed as social, political, and religious documents. Visits to museums and galleries are required. This

course is oriented to non-art majors. (General Studies – Level II, Arts and Letters)

ARTH 1600-3 World Art I: Art before 1200 (3 + 0)

Prerequisites: permission of instructor

This course is a survey of major art works from Europe, Asia, Africa and the Americas. It includes art from the Paleolithic period through the 12th century A.D. It introduces students

to mankind's rich artistic heritage, and initiates them into the study of art history.

ARTH 1700-3

World Art II: Art since 1200 (3 + 0) ENG 1010 and ARTH 1600, or permission of instructor Prerequisite:

Pre/Corequisite: ENG 1020 recommended

This course is a survey of major art works from Europe, Asia, Africa and the Americas over the course of the last eight hundred years. It introduces students to varied forms of art his-

torical analysis, and to both modern and post-modern theories of art.

ARTH 2100-3 An Integrated Approach to Art and Music (3 + 0) (MUS 2040) This course is not approved

for guaranteed transfer to other Colorado colleges and universities

Prerequisite: 24 undergraduate credit hours, including ENG 1010 and ENG 1020, or permission of instructor

This course enables students to develop awareness and knowledge of the major periods, styles, and landmark works in worldwide visual arts and music. Philosophical and aesthetic foundations of art and music will be explored to enhance this study. Basic elements of music and art will be identified and applied to the study of masterworks. The concepts presented in this integrated approach will be applied to develop artistic sensibility. Credit will be granted

for only one prefix: ARTH or MUS. (General Studies–Level II, Arts and Letters)

Art of the 20th and 21st Centuries (3 + 0) ARTH 3080-3

ARTH 1700 or permission of instructor Prerequisite:

This course is a study of Modern Art that traces the development of art from 1900 to the present by showing how each style rejected or incorporated ideas from earlier styles. Emphasis is placed on major works of the 20th century which have inspired and affected

contemporary artists.

ARTH 3300-3 Art and Cultural Heritage (3 + 0)

satisfaction of Level I General Studies requirements; ARTH 1500 or ARTH 1600 or ARTH Prerequisite:

1700 or ARTH 2100; or permission of instructor

This course studies the work produced by artists of African, Asian, Latin American, and Native American ancestry and their contribution to art in the United States. A brief introduction to the artistic legacies of Europe, Africa, Asia, and the Americas is followed by a more focused study of American artists whose creative activity reflects their varied cultural heritages. This course may not be used as the sole art history elective for art studio majors. (Gen-

eral Studies—Level II, Arts and Letters; Multicultural)

ARTH 3310-3 African Art (3 + 0) (AAS 3310)

ENG 1010 and ENG 1020 Prerequisites:

This course examines the art of the continent of Africa and evaluates the ways it has been studied and displayed. It traces historical relationships between regions, from the shores of the Mediterranean and the Nile Valley, the west and Ivory Coast, to the central regions and east and south to the Swahili Coast and the Cape. Credit will be granted for only one prefix:

ARTH or AAS.

Egyptian Art (3 + 0) (AAS 3033) ARTH 3330-3

Prerequisites: ENG 1010 and ENG 1020

This course examines Egyptian art from the beginning of civilization in Kemet (the Black Land) through Greek, Roman and Byzantine periods, and continuing into the Islamic period.

Credit will be granted for only one prefix: AAS or ARTH.

ARTH 3340-3 Asian Art 3 (3+0)

Prerequisite: ARTH 1600 or permission of instructor

This course is a survey of the art of India, China, and Japan. It will include a study of the cultural, historical, and religious factors that have influenced the development of visual cultures in these three particular civilizations. A key theme is the interaction among cultural traditions not only within India, China and Japan but also through international processes of trade, colonialism, and nationalism. Special attention will be placed on works found in the Denver Art Museum.

ARTH 3360-3 Contemporary Chicana/o Art 3 (3 + 0) (CHS 3025)

Prerequisite: ENG 1010 and ENG 1020

This course is a survey of contemporary Chicana/o art. The historical, religious, social and political contexts of the artworks are studied. Students examine recurrent themes, icons, imagery and forms within the historical timeline. This course may not be used as the sole art history elective for art studio majors. Credit will be granted for only one prefix: ARTH or CHS.

ARTH 3380-3 Women's Art/Women's Issues (3 + 0) (WMS 3950)

Prerequisites: WMS 1001 or ARTH 1500 or ARTH 1700 or ARTH 2100; satisfaction of all Level I General

Studies requirements; or permission of instructor

The purpose of this course will be to gain an understanding of women artists and their work from the perspectives of feminist scholarship in art and art history. This course may not be used as the sole art history elective for art studio majors. Credit will be granted for only one prefix: ARTH or WMS. (General Studies—Level II, Arts and Letters)

ARTH 3520-3 The Medieval Artist: Variable Topics (3 + 0)

Prerequisites: ARTH 1600 or ARTH 1700 or permission of the instructor

This course studies a particular artist or group of artists and explores different techniques, practices, media and approaches to problems of style and iconography in the historical context of the Middle Ages. It focuses on artists such as Gislebertus, Nicholas of Verdun, Villard de Honnecourt, Jean Pucelle, Giotto, Duccio, or others and may include the arts of sculpture, metalwork, manuscript illumination, stained glass, fresco, or panel painting. (Variable topics; may be repeated for credit under different topics.)

ARTH 3530-3 The Renaissance Artist: Variable Topics (3 + 0)

Prerequisites: ARTH 1600 or ARTH 1700; or permission of the instructor

This course is a study of a particular artist or artists and their works during the Renaissance, and an exploration of studio practice, technique, and various media in light of stylistic development, patronage, iconography, and cultural context. The course focuses on artists such as Van Eyck, Bosch, Bruegel, Leonardo, Michelangelo, Durer or others, and includes the arts of drawing, panel painting, fresco, sculpture or printmaking. (Variable topics; may be repeated for credit under different topics.)

ARTH 3540-3 The Baroque Artist: Variable Topics (3 + 0)

Prerequisite: ARTH 1600 or ARTH 1700 or permission of the instructor

This course presents a study of a particular artist or artists and their works during the seventeenth and eighteenth centuries to include the application of new graphic techniques, dramatic composition, and the development of large programs of painting, sculpture, and architecture to meet the demands of patrons. The course focuses on artists such as Caravaggio, Bernini, Rubens, Rembrandt or others in their historical, stylistic, and cultural context. (Variable topics; may be repeated for credit under different topics.)

ARTH 3660-3 Art Nouveau (3 + 0)

Prerequisite: ARTH 1600 and ARTH 1700; or permission of instructor

This course is a study of the first modern theories of design as they developed out of the concepts of "Art for Art's Sake." These ideas are traced through an in-depth study of furniture, painting, sculpture, pottery, and architecture from the period 1880-1916.

ARTH 3670-3 History of Art Between World Wars (3 + 0)

Prerequisite: ARTH 1600 and ARTH 1700; or permission of instructor

This course is an in-depth study of art, architecture, and design in the transitional period between World War I and World War II, considering art in Europe and the United States in its cultural context. Students read theoretical material and artists' writings as well as examine political and historical events and analyze how those informed and were represented by artistic practices. A recurring theme throughout the course is art's social and critical functions.

ARTH 3690-3 History of Communication Design (3 + 0)

Prerequisite: ARTH 1700 or permission of instructor

This course presents a comprehensive study of the global developments of visual communication throughout history beginning with the earliest of communication marks and extending to contemporary design concerns. Learned content and design concepts will be applied to design concepts with the content and design concepts.

develop informed design sensibilities.

ARTH 3790-3 History of Photography (3 + 0)

Prerequisites: ARTH 1700 or permission of instructor

This course examines photographs and critical issues surrounding photography in the 19th and 20th centuries. The relationships of photography to the other arts and to literary, political, social and philosophical issues are keys to this discussion. The course briefly surveys photography's varied histories, and then selects particular moments and issues for deeper critical

examination.

ARTH 3880-3 Understanding Visual Language (3 + 0)

Prerequisites: ARTH 1700 or permission of instructor

Pre/Corequisites: recommended: ARTH 3080

This course teaches students to approach artwork critically in order to construct meaning from visual images. Students use models of critical thinking to analyze and critique visual texts, including signage, images in mass media, websites, and other works of art. They also

learn to apply the class content to their own artwork.

ARTH 3890-3 Contemporary Print History (3 + 0)

Prerequisites: ARTH 1700 or permission of instructor

This course examines the general history of printmaking and the development of printmaking processes with an emphasis on in depth study, research and critique of contemporary

American printmaking and print artists

ARTH 4210-3 Site Specific Studies in Art History: Variable Topics (3 + 0)

Prerequisites: ARTH 1500 or ARTH 1600 or ARTH 1700; permission of instructor; other prerequisites will

vary by topic

This course allows students to travel to a city or a region in order to experience art and architecture in their intended location. Emphasis is placed upon the historical, geographical, and philosophical context of the monuments, buildings, and other art works visited. Variable top-

ics; may be repeated for credit under different topics.

ARTH 4410-3 Art History and Its Methods (3+0)

Prerequisites: ARTH 1600, ARTH 1700, and an additional course in art history; or permission of instructor

This course is a seminar that will allow students to analyze the changing methodology of the discipline of art history over time and to develop a project that will investigate a specific problem found in previous and current scholarship dealing with issues of style, meaning, or interpretation. Students will present the results of the project in the seminar setting, and will

also submit a written version of those findings with appropriate documentation.

ARTH 4480-3 Art Theory and Criticism (3 + 0)

Prerequisites: ARTH 1600, ARTH 1700, and ARTH 3080; or permission of instructor

This course is a seminar for advanced students involving the reading and discussion of Modern and Postmodern critical and theoretical essays about the visual arts. Students are required to make extensive use of the library facilities and to demonstrate their ability to analyze texts both orally and in writing. By the end of the course, students will be able to apply theoretical

principles to their own and historical artworks.

ARTH 4510-3 Exhibiting the Art Object (3 + 0)

Prerequisites: ARTH 1600, ARTH 1700, ARTH 3080, and at least 9 additional semester hours of art history;

or permission of instructor

This course requires the student to plan an exhibition of art works. Exhibition ideas are based upon discussions with curators, conservators, and other museum professionals, as well as

research into standard museum and gallery practices.

ARTH 4700-3 Senior Thesis in Art History (3 + 0)

Prerequisites: ARTH 1600, ARTH 1700, ARTH 3080 and at least 12 additional semester hours of art history.

Completion of all Level I and Level II General Studies requirements; senior standing

Pre/Corequisite: ARTH 4480

This course is designed for the art history, theory, and criticism student who will build upon knowledge of scholarship, methodology and theory gained in previous coursework. The student will develop an original thesis in the investigation of a specific problem in the field of art history, dealing with issues of style, meaning, and interpretation, critical theory, or the exhibition of the art object. The student will present the results of that research in a formal manner to students and faculty in a colloquium setting. Also, the student will submit a written version of those findings with appropriate documentation. (Senior Experience)

ASTRONOMY

AST 1040-3 Introduction to Astronomy (2 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

A brief introduction to observational astronomy is followed by a survey of the physical processes and models that describe the evolution of planets, stars, galaxies, and modern cosmology. This course is taught in both the lecture and self-paced mode. (General Studies—Level

II, Natural Science)

AST 1052-4 General Astronomy I (3 + 2)

Prerequisite: high school algebra or equivalent

Introduces the methods and results of modern astronomy (solar system, stars, galaxies, and

cosmology) at an elementary level.

AST 3040-3 Modern Cosmology (3 + 0)

Prerequisites: AST 1040 or PHY 1000 or equivalent, and satisfaction of Level I General Studies requirements

Designed for non-majors. 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—Level II, Natural Science)

AST 3050-3 General Astronomy II (3 + 0)

Prerequisites: AST 1052 or PHY 2010 or PHY 2311

This course is a continuation of AST 1052. The topics covered in this course include stellar evo-

lution, galaxies, and cosmology.

ATHLETICS

ATH 1000-1-2 Varsity Sports (1 + 1) or (2 + 2)

Offers the serious athlete the opportunity for refinement of the skills involved in each sport. Emphasizes an understanding and application of skills of the individual sport in intercollegiate competition, team cooperation, and school spirit. Interested students are encouraged to contact the individual sport coach with résumé, current statistics, and letters of recommendation from previous coaches.

Special Note: No more than four semester hours in varsity sports (ATH) courses will be counted toward a bachelor's degree for students who are not majoring in human performance and sport or leisure studies.

BIOLOGY

BIO 1000-3 Human Biology for Non-Majors (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

This one-semester course familiarizes the student with the principles of the living world, the basic form and function of the human body, and how these two relate to each other. Basic variations of life forms and the inter-relationships of the human body to the surrounding world are the main thrusts of the course. This course does not apply toward a biology major or minor. (General Studies—Level II, Natural Science)(GT-SC2)

BIO 1010-3 Ecology for Non-Majors (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This one-semester course familiarizes the student with the fundamentals of general ecology. Classical concepts of ecology and modern environmental pressures are brought together to stimulate discussion of present environmental problems. This course does not apply toward a

biology major or minor. (General Studies - Level II, Natural Science)(GT-SC2)

BIO 1080-3 General Biology I (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing and mathematics preassessment

placement tests

Corequisite: BIO 1090

This introductory course serves as the foundation for all other professional biology courses (for majors, minors, paramedical, premedical, and other biology students). Emphasis is on cellular and molecular biology, energy systems, and genetics. Offered in lecture format. (General Studies—Level II, Natural Science. A student must successfully pass both BIO 1080 and BIO 1090 to

receive General Studies credit and GT-SC1)

BIO 1081-3 General Biology II (3 + 0)

Prerequisites: BIO 1080 and BIO 1090 or permission of instructor

Corequisite: BIO 109

This course is a continuation of General Biology I (BIO 1080). Emphasis is placed on evolution, ecology, and classification, diversity and structure of plants and animals. (General Studies - Level II, Natural Science. A student must successfully pass both BIO 1081 and BIO

1091 to receive General Studies credit.)

BIO 1090-1 General Biology Laboratory I (0 + 3)

Prerequisite: minimum performance standard scores on reading, writing and mathematics preassessment

placement tests

Corequisite: BIO 1080

This mandatory laboratory accompanies BIO 1080. This course introduces basic laboratory techniques and will reinforce/explore concepts introduced in BIO 1080. (General Studies-Level II, Natural Science. A student must successfully pass both BIO 1080 and BIO 1090 to

receive General Studies credit and GT-SC1)

BIO 1091-1 General Biology Laboratory II (0 + 3)

Prerequisites: BIO 1080 and BIO 1090 or permission of instructor

Corequisite: BIO 1081

This mandatory laboratory accompanies BIO 1081. This course will explore and reinforce concepts introduced in BIO 1081 through laboratory and field exercises in ecology, evolution and diversity. (General Studies-Level II, Natural Science. A student must successfully pass

both BIO 1081 and BIO 1091 to receive General Studies credit.)

BIO 2100-5 General Botany (3 + 4)

Prerequisites: BIO 1080 and BIO 1090, BIO 1081 and BIO 1091 or permission of instructor

This is a one-semester introductory survey of the plant kingdom with an emphasis on evolu-

tionary theory, life cycles, anatomy and morphology, and vascular plant physiology.

BIO 2310-4 Human Anatomy and Physiology I (3 + 3)

Prerequisites: BIO 1080 and BIO 1090 or permission of instructor

The is the first of two courses addressing the structure and function of the human body. Topics include tissues, anatomy, the musculoskeletal system, and neurophysiology. Course content and level are designed for allied health science students and for human performance and

sport or leisure studies majors.

BIO 2320-4 Human Anatomy and Physiology II (3 + 3)

Prerequisite: BIO 2310 or permission of instructor

This is the second of two courses addressing the structure and function of the human body. Topics include endocrinology; circulation; and the respiratory, digestive, urinary and reproductive systems. Course content and class level are designed for allied health science students

and for human performance and sport or leisure studies majors.

BIO 2400-5 General Microbiology (4 + 2)

Prerequisites: BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, one semester of college chemistry, or per-

mission of instructor

This is a one-semester introduction to the microbial world, including discussions of bacteria,

Cyanobacteria, fungi, protozoans and viruses.

BIO 3000-3 Advances in Biology (3 + 0)

Prerequisites: BIO 1080 and BIO 1090 and CHE 1800 or permission of instructor

The course examines the impact of modern science and technology on the future development of biological science. Topics include space and diving physiology, the impact of the information revolution (computers and the Internet), the science of exobiology, new tech-

niques to study biology, directions in modern medicine and nanotechnology.

BIO 3050-4 Cell and Molecular Biology (4 + 0)

BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, and CHE 3100, or permission of instruc-Prerequisites:

This is the study of the chemical bases and interrelationships of cellular structure as related to

cellular function.

BIO 3140-5 Plant Physiology (3 + 4)

BIO 2100 or permission of instructor Prerequisite:

This course is a comprehensive survey of the internal chemical changes within plants and how these changes control growth and development. Discussions include water relations, transpiration, food transport, ion uptake, photosynthesis, respiration, plant movements,

flowering, dormancy, and senescence.

BIO 3160-4 Plant Anatomy and Morphology (2 + 4)

Prerequisite: BIO 2100 or permission of instructor This course is a survey of cell types, tissue systems, and the anatomical structure of stems,

roots, and leaves of vascular plants. The development and evolutionary history of vascular

plants will be discussed.

BIO 3180-4 Vascular Plant Taxonomy (2 + 4)

BIO 2100 or permission of instructor Prerequisite:

The identification and collection of the common vascular plants of Colorado is studied. Lectures include principles of plant terminology, characteristics of major plant families, phylogenetic relationships, and uses of the plants. Laboratories consist of identification of the plants

in the field and on herbarium mounts. A student collection is required.

BIO 3200-4

Prerequisites:

Invertebrate Zoology (3 + 2)
BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or permission of instructor
This course includes classroom, laboratory, and field study of phylogeny, structure, function, development, and conservation of invertebrate animals. The course emphasizes diversity, evolutionary changes, and adaptation to the environment. Topics range from the molecular

to the ecological level of study.

BIO 3210-4

Histology (2 + 6) BIO 1080 and BIO 1090, and BIO 1081 and BIO 1091, or BIO 2310, or BIO 2320, or permis-Prerequisite:

sion of instructor

A comprehensive study of the microscopic structure and appearance of body tissues and of the tissue composition of body organs, mainly as seen in mammals. Emphasis is placed on the laboratory. Correlations are drawn between structure and function. Laboratory drawings

and digital images are required.

BIO 3220-5 Comparative Vertebrate Anatomy (3 + 6)

BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, or permission of instructor Prerequisites:

A comprehensive study is made of the evolution of structure and function of vertebrates. The laboratory portion of the course is emphasized and will consist of detailed dissections of ver-

tebrates representing several classes.

BIO 3230-5 Principles of Human Anatomy and Physiology for Secondary Education (3 + 4)

BIO 1080/BIO 1090 or permission of instructor Prerequisites:

This course addresses the structure and function of the human body. Topics include homeostasis, tissues, the musculoskeletal system, neurophysiology, endocrinology, circulation, and respiratory, digestive, urinary, and reproductive systems. Course content and class level are designed only for students who are biology majors seeking licensure in secondary science education. This course will not count for biology credit for any other biology majors and will

not substitute for BIO 2310 and BIO 2320.

BIO 3260-4 Vertebrate Zoology (3 + 2)

BIO 1080 and BIO 1090, BIO 1081 and BIO 1091 or permission of instructor Prerequisite:

This course examines the origin, evolution, classification, morphology and adaptation of

the vertebrates.

BIO 3270-4 Parasitology (3+2)

BIO 1080 and BIO 1090, BIO 1081 and BIO1091, BIO 3200, and at least junior standing Prerequisite:

This course covers the identification, life cycles, host-parasite relationships, and epidemiology of protozoan, platyhelminth, nematode, acanthocephalan, and arthropod parasites important

in human and veterinary medicine.

BIO 3300-3 Advanced Human Biology for Non-Majors (3 + 0)

BIO 1000, or BIO 2310, or BIO 2320, or permission of the instructor, and satisfaction of Level Prerequisites:

I General Studies course requirements

This course is designed to be an advanced sequel to BIO 1000. It addresses the more complex aspects of human body functions and how the body deals with insults such as bombardment of microorganisms, various dietary practices, pollution, and socio-economic challenges. Topics include immunity, AIDS, genetics, stress, cancer, and aging. (General Studies-Level II,

Natural Science)

BIO 3320-4 Advanced Human Physiology (3 + 3)

Prerequisites: BIO 1080 and BIO 1090, two additional semesters of biology (preferably BIO 2310 and BIO

2320), one year of chemistry

This in-depth physiology course covers the function of the human body as it relates to homeostasis. This course emphasizes membrane transport, fluid compartments, acid-base

balance, cardiovascular and respiratory physiology, and neurotransmission.

BIO 3330-4 Advanced Human Cadaver Anatomy (2 + 6)

Prerequisites: BIO 1080 and 1090; BIO 2310, and upper-division standing. BIO 2320 is recommended.

(This is an upper-division course in human anatomy designed for biology majors and other students who need upper division human anatomy training in preparation for health science

This course presents human gross anatomy from a regional perspective, using clinical applications as a basis for anatomical understanding. Designed for biology majors entering profes-

sional and graduate schools.

BIO 3340-3 Endocrinology (3+0)

BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, two additional semesters of biology, and Prerequisites:

CHE 3100 required, or permission of instructor

This course is a survey of the major human endocrine organs and their hormones. Topics include normal anatomy and physiology of each gland, cellular mechanisms of hormone

action, and endocrinopathies.

BIO 3350-4

Immunology (3 + 3) BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, CHE 3100 and at least junior standing, or Prerequisites:

permission of instructor

This course is a study of the humoral and cell-mediated immune response. Topics include immunobiology, immunochemistry, hypersensitivity, autoimmune diseases, and theories of

antibody formation.

BIO 3360-4 Animal Physiology (4+0)

Prerequisites: BIO 3200 or BIO 3260 and CHE 1810, or permission of instructor

This is a lecture course for science majors on the physiological processes common to most animals, and on the physiological adaptations and acclimation to environmental challenges

especially with respect to temperature, moisture, and oxygen availability.

Biology of Women (2+2) (WMS 3470) BIO 3471-3

Prerequisite: BIO 1000 or WMS 1001 or permission of instructor

An examination of the anatomy and physiology of sex in humans, the mechanisms involved in formation of sex and gender, and the interactions between science, society, and medical practice with regard to issues of sex and gender. Credit will be granted for only one prefix:

BIO or WMS.

BIO 3511-3 Anatomy and Physiology of Speech (2.5 + 1.5) (SPE 3511)

BIO 2310 and SPE 2530; or permission of instructor Prerequisite:

This course provides students with 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. It includes lecture and laboratory components and involves dissection. Credit will be granted for only one prefix: SPE or BIO.

BIO 3530-3 Physiology of Aging for Non-Biology Majors (3 + 0) (HES 3810)

Prerequisites: BIO 1000 or equivalent, completion of all Level I General Studies course requirements or

permission of instructor
This course views aging from both the biological and the physiological perspectives. Theories on the biology of aging and cultural variations of aging will be explored. The concepts of continuity and change will be used to study the cellular and molecular events throughout the lifespan that lead to aging and disease. Causes, physiological and pathological changes, and factors that contribute to life prolongation and the strengthening of physiologic competence to improve the quality of life as individuals age will be addressed. Credit will be granted for only one prefix: BIO or HES. (General Studies-Level II, Natural Science)

BIO 3550-4

Urban Ecology (3 + 3)
BIO 1080 and BIO 1090 or one semester of chemistry, physics, or earth science, or permission Prerequisites:

of instructor, and satisfaction of Level I General Studies course requirements

An analysis is made of the urban ecosystem and the factors involved: water, transportation, solid wastes, energy, land, political institutions, economics, social patterns, communications, recreation, shelter, nutrition, and population. Field trips to key environmental locations in the greater metropolitan Denver area and field trip reports are required. (General Studies—

Level II, Natural Science)

BIO 3600-4 **General Genetics (4 + 0)**

Prerequisites: BIO 1080 and BIO 1090, BIO 1081 and BIO 1091, and one additional semester of biology

required, one year of chemistry strongly recommended, or permission of instructor

A study is made of classical genetics, with emphasis on numerical analysis of inheritance. The molecular biology of replication, transcription, and translation is presented. Genetic varia-

tion and human genetic diseases are discussed.

BIO 4050-4 Advanced Cell and Molecular Biology (4+0)

Prerequisite: BIO 3050 with a grade of "C" or better

A continuation and extension of subjects introduced in Biology 3050. Topics emphasize cellto-cell signaling, control over the eukaryotic cell cycle, and molecular events associated with

the loss of cell control.

BIO 4160-4 Mycology (2+4)

BIO 2100 or BIO 2400 Prerequisite:

This course emphasizes the true fungi: Basidiomycota, Ascomycota, Zygomycota, and Fungi Imperfect. Culture techniques, identification, life cycles, and economic importance are stressed.

BIO 4280-4 Ornithology (3 + 3)

Prerequisite: BIO 3260 or permission of instructor

This course is a survey of the life of birds, especially as related to their evolutionary origins, adaptations for flight, and exploitations of various ecological niches. The course includes consideration of behavior, physiology, and classification. Required field trips may include one

weekend trip.

BIO 4400-4 Microbial Physiology (3 + 3)

BIO 2400 or equivalent or permission of instructor Prerequisites: CHE 3100 or equivalent or permission of instructor Pre/Corequisite:

A detailed study of the organization and structure of bacterial cells is presented. An emphasis

is placed on biosynthesis, polymerization, and assembly of bacteria.

BIO 4440-3 Virology (3+0)

BIO 2400 and BIO 3600, or permission of instructor Prerequisites:

A survey of the interactions of viruses and their hosts is presented. The emphasis is on bacte-

rial and animal host forms.

BIO 4450-5 Pathogenic Microbiology (3 + 4)

Prerequisite: BIO 2400 or permission of instructor

A comprehensive study of human bacterial pathogens. The emphasis is on etiology, pathogenesis, and epidemiology of human diseases. Laboratory studies involve isolation

and identification.

BIO 4470-4 Microbial Genetics (3 + 3)

Prerequisites: BIO 2400 and BIO 3600, or permission of instructor

A study of current information on the mechanisms of microbial inheritance and expression of genetic information, intended to develop perspectives relative to the evolution of the field,

applications to higher organisms, and directions in current research.

BIO 4510-4 Microbial Ecology (4+0)

Prerequisites: BIO 2400 and six hours of upper-division microbiology and/or molecular biology courses, or

permission of instructor, satisfactory completion of all Level I and II General Studies course

requirements, senior standing

This course is a detailed study of microbial ecology, emphasizing population interactions, quantitative ecology, habitat ecology, and biochemical cycling. Discussion of biotechnological

aspects of microbial ecology is included. (Senior Experience)

BIO 4540-4 Plant Ecology (4+0)

Prerequisites: BIO 2100, or permission of instructor, senior standing, and satisfaction of all Level I and II

General Studies course requirements

This course proceeds from a study of concepts (matter and energy, food webs, nutrient cycles, succession) to a discussion of populations, communities, and biomes, emphasizing the interrelationships and interdependence of living things with each other and with their nonliving

environment. (Senior Experience)

BIO 4550-4 Animal Ecology (3 + 3)

BIO 3200 or BIO 3260, and six hours of upper division biology courses, or permission of instructor, senior standing, and satisfaction of all Level I and II General Studies course Prerequisites:

A detailed consideration is made of population dynamics, intra- and interspecific interactions, niche segregation, species diversity, speciation and distributional patterns. Appropriate

readings from current literature will be required. (Senior Experience)

BIO 4810-4 Vertebrate Embryology (2+6)

BIO 3260 or permission of instructor Prerequisite:

This course is a survey of events, evolutionary patterns, and control mechanisms in early embryonic development of various classes of vertebrates, from fertilization through early organ formation. Laboratory includes the study of living fish embryos. Lab drawings are required.

BIO 4850-3 Evolution (3 + 0)

Prerequisites: BIO 3600 or permission of instructor, satisfaction of all Level I and Level II General Studies

course requirements, senior standing

This course will develop an awareness and understanding of organismic evolution as the foundation of biological thought. The major features of evolution—variation, natural selection, adaptation and speciation—and their significance to the origin and evolution of major plant and animal groups are investigated. A research paper and an oral presentation will be

required. (Senior Experience)

CAREER AND PERSONAL DEVELOPMENT

CPD 2300-1 Time Management (1 + 0)

Learning to manage time efficiently is a necessary skill for successful students, educators, and professionals. This course is designed to enable women and men to analyze their use of time, identify factors that contribute to wasting time, and improve use of time through better pri-

oritizing, scheduling, and increased motivation.

CPD 2310-1 Stress Management (1 + 0)

In every individual's life there are numerous sources of stress. Instead of simply treating the symptoms of stress, this course will help students identify their own causes of stress and then deal with those causes prescriptively. Discussions will focus on understanding stress theory, personality attributes that contribute to stress, stress in the work environment, and relation-

ship stress.

CPD 2320-1 Self Esteem (1+0)

This course will explore the issues of self-esteem within a feminist framework, including the effects of sexism on self-worth, the role of women in a sexist society, and the tools needed to survive with a strong self image. The goal is to apply what is learned to enhancing everyday

living through an understanding of societal, familial, and self-induced pressures.

CPD 2330-1

This course explores assertive behavior from a feminist point of view. The differences between passive, assertive, and aggressive behaviors are discussed. Avenues for change and tools to

achieve change are identified.

CPD 2340-1 Sexual Harrassment/Discrimination (1+0)

This interactive workshop will help students to become aware of sexual harassment and learn how to stop and prevent it.

Career Evaluation Workshop (1 + 0) CPD 2350-1

This course will focus on career evaluation and will assist students in acquiring the skills and attitudes to plan effectively for and manage the changes which they will experience during their work lives.

Multilevel Wellness (1+0) CPD 2360-1

This course will empower students with tools to attain their own personal sense of well-being. It will address wellness as a multi-level process consisting of emotional, cognitive, somatic, and spiritual components. The workshop will include information, experiential exercises, and process work. Group work and journal keeping will also be used to bridge the communication gap between the self and others.

CIVIL ENGINEERING TECHNOLOGY

CET 1100-3 Introduction to Civil Engineering Technology (3 + 0)

Pre/Corequisite: MTH 1410 with a grade of "C" or better

This course is a cross section of topics in contemporary engineering disciplines, with emphasis on the tools of engineering problem solving. It includes discussion of the problem, the influencing factor, the analysis, and the creative design process itself.

CET 1200-3 Technical Drawing I (1 + 4) (MET 1200)

This is an introductory course in technical drawing. It covers the use of instruments, lettering, and geometric construction, and includes basic principles of descriptive geometry to solve problems involving the relative position of points, lines, and planes in space. Credit will be granted for only one prefix: CET or MET.

CET 1210-3

Prerequisite:

Technical Drawing II (1 + 4) (MET 1210)
CET 1200 or MET 1200 with a grade of "C" or better, or permission of instructor
This course is mechanical drawing using AutoCAD and manual drafting, and includes orthographics, axiometric and oblique projection, sectioning, dimensioning, and tolerancing. The student is also introduced to fluid power diagrams, piping weldments, and electrical and electronic diagrams. The final project is an assembly drawing of a mechanical component or subsystem. Credit will be granted for only one prefix: CET or MET.

CET 2100-4

Structural Drawing (2 + 4) CET 1210 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is designed to prepare the necessary drawings of structural members and connections, including engineering layouts and detail drawings.

CET 2150-3 Mechanics I-Statics (3+0) (MET 2150)

Pre/Corequisite: MTH 1410 with a grade of "C" or better, or permission of instructor

This course examines principles of statics, studies of vectors, their resolution and composition, forces and moments, force systems and their resultants. It also covers force systems in equilibrium, static friction, centroids, moments of inertia and radii of gyration of areas, shear and moment diagrams. Credit will be granted for only one prefix: CET or MET.

CET 2530-4 Route Surveying (2 + 4) (SUR 2530)

SUR 1520 for CET majors, SUR 2520 and SUR 2620 for SUR majors, all with a grade of "C" Prerequisites:

or better, or permission of instructor

This course is designed to expand the concepts on circular and parabolic curves and earthwork introduced in SUR 2520. Included is the mathematics of spirals; unequal tangent vertical curves, mass diagram of earthwork quantities; alignment profile and slope staking; large scale site mapping; alignment and design; and other surveying techniques required for highways, pipelines, tunnels, transmission lines, water lines, sewers and canals, etc. This course will introduce terrain modeling for site development and environmental concerns

CET 3100-3 Construction Methods (3 + 0)

at least junior standing, or permission of instructor Prerequisite:

This course provides a basic understanding of the methods used by a general contractor to determine earthwork costs. The student is introduced to the application of engineering fundamentals for the analysis of heavy earth-moving equipment, as well as to the basic concepts of CPM. Also taught in this course is a basic understanding of cost estimating of reinforced concrete structures.

Construction Estimating (3 + 0) CET 3110-3

at least junior standing, or permission of instructor Prerequisite:

This course provides a basic understanding of the methods used to prepare a building and/or bridge construction cost estimate. The students learn to do quantity survey utilizing plans

and specifications, with emphasis on concrete.

Engineering Economy (3 + 0) CET 3120-3

Prerequisite: junior standing or permission of instructor

This course examines the "time value of money" as a basis for evaluating economic alterna-

tives required in engineering decision-making.

CET 3130-3 Mechanics of Materials (3 + 0) (MET 3130)

CET 2150 or MET 2150 and MTH 2410 all with a grade of "C" or better, or permission of Prerequisites:

instructor

Corequisite: CET 3140 or MET 3135

This course introduces the theory of strength of materials; stresses and strains in members subjected to tension, compression, and shear; flexural and shearing stresses beams; deflection of beams; column analysis; principal stresses; and introduction to indeterminate structures.

Credit will be granted for only one prefix: CET or MET.

CET 3140-1 Mechanics of Materials-Laboratory (0 + 2) (MET 3135)

Prerequisites: CET 2150 or MET 2150 and COM 2610 all with a grade of "C" or better, or permission of

Corequisite: CET 3130 or MET 3130

> This course is a laboratory course to accompany the lecture course CET 3130-3, Mechanics of Materials. This laboratory course is structured to give the student experience in the use of laboratory equipment for conducting torsion, shear, and bending tests on various materials.

Credit will be granted for only one prefix: CET or MET.

CET 3150-3 Thermodynamics (3 + 0) (MET 3110)

MTH 1410 and PHY 2010 or PHY 2311 with grades of "C" or better, or permission of instruc-Prerequisites:

The fundamental laws of thermodynamics are studied. Basic concepts of energy, the thermodynamic system, dimensions and units, and the ideal-gas equation of state are treated. Closed and open systems are studied. Heat engines are introduced. Reversible and irreversible pro-

cesses are investigated. Credit will be granted for only one prefix: CET or MET.

CET 3160-3 Mechanics II-Dynamics (3+0) (MET 3160)

CET 2150 or MET 2150 and MTH 2410 with grades of "C" or better, or permission of instruc-Prerequisites:

This course covers the principles of dynamics: kinematics, the study of the geometry of motion of a body without reference to the forces that cause the resulting motion; and kinetics, the study of the relation existing between the forces acting on the body, the mass of the body, and the motion of the body. Credit will be granted for only one prefix: CET or MET.

CET 3170-3 Introduction to Structural Analysis (3 + 0)

Prerequisite: CET 3130 with a grade of "C" or better, or permission of instructor

This course presents first principles of structural analysis applied to statically determinate

and indeterminate structures.

CET 3180-3 Fluid Mechanics I (3 + 0) (MET 3180)

Prerequisite:

CET 3160 or MET 3160 with a grade of "C" or better, or permission of instructor This course covers physical properties of fluids, hydrostatics, kinematics, energy considerations, momentum, and incompressible flow in pipes. Compressible fluid flow will also be

studied. Credit will be granted for only one prefix: ĈET or MÊT.

CET Fluid Mechanics II (3 + 0) CET 3190-3

CET 3180 with a grade of "C" or better Prerequisite:

This course is a continuation of the fundamentals introduced in CET 3180, Fluid Mechanics I, with emphasis on the analysis of forces on immersed bodies, steady flow in open channels,

fluid measurements, and the problems associated with unsteady fluid flow.

CET 3320-3 **Environmental Impact Statements (3 + 0)**

at least junior standing, or permission of instructor Prerequisite:

This course is a study of the physical and legal requirements of the environmental impact assessment process. Students will learn to do information research and prepare a draft envi-

ronmental impact statement.

CET 3330-3

Environmental Technology Processes (3 + 0) CHE 1100 with a grade of "C" or better, at least junior standing, or permission of instructor Prerequisites:

This course covers chemistry basics, acid-base reactions, biochemical processes and reactions. Also included is an overview of water and wastewater process. The course introduces basic

laboratory tests and introduces bacteria and microbes in waste treatment processes.

CET 4120-3 Concrete Design I (3 + 0)

CET 3170 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is a basic introduction to the fundamental principles of reinforced concrete design.

CET 4130-3

Soil Mechanics (2 + 2) CET 3130 and CET 3180 with grades of "C" or better, and senior standing Prerequisites:

In this course, students are introduced to the physical and mechanical properties of soils and effects of soil conditions on the design and construction process. They design and evaluate solutions related to the foundation design of an engineering structure. Students will perform standard laboratory soil tests analyzing variations in behavior of soils under different loading

conditions. (Senior Experience)

CET 4140-3 Concrete Design II (3 + 0)

CET 4120 with a grade of "C" or better, or permission of instructor Prerequisite:

> This course is a continuation of the fundamentals introduced in Concrete Design I, with an emphasis on the analysis and design of concrete structural members based on the latest editions of the American Concrete Institute Building Code requirements for reinforced concrete.

CET 4400-3 Steel Design I (3 + 0)

CET 3170 with a grade of "C" or better, or permission of instructor Prerequisite:

This course focuses on the analysis and design of structural steel members, based on the latest

edition of AISC design requirements and specifications for structural steel.

CET 4410-3 Steel Design II (3 + 0)

Prerequisite: CET 4400 with a grade of "C" or better, or permission of instructor

This course is a continuation of the fundamentals introduced in Steel Design I, with emphasis on the analysis and design of structural steel members, connections, and composite members, based on the latest AISC design requirements and specifications for structural steel.

CET 4450-3 Timber Design (3+0) CET 3170 with a grade of "C" or better, or permission of instructor Prerequisite:

This course focuses on the analysis and design of wood structures based on the latest edition

of the National Design Specifications for Wood Construction and Supplement.

CET 4570-3 Engineering Law (3 + 0)

CET 3120 or permission of instructor Prerequisite:

This course provides the student with a basic understanding of contract laws and regulations, laws that govern the execution of the work being performed under the contract, laws that

relate to the settling of differences and disputes, and licensing laws.

CHEMISTRY

CHE 1010-3 Chemistry and Society (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

This course is intended for nonscience students who need to satisfy the General Studies Science requirement. It introduces basic concepts of chemistry in modern society. The emphasis of the course is to permit students to obtain a qualitative understanding of chemical principles and their application to environmental issues. (General Studies-Level II, Natural Science)(GT-

CHE 1100-4 Principles of Chemistry (4+0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

Corequisite: CHE 1150 Principles of Chemistry Laboratory

This course is a study of the fundamentals of chemistry. A survey of atomic structure, periodicity, bonding, nomenclature, stoichiometry, gas laws, and solution chemistry is provided for those students with no background in these areas. (General Studies—Level II, Natural Science - Completion of both CHE 1100 and CHE 1150 with passing grades is required to

receive General Studies credit and GT—SC1)

CHE 1150-1 Principles of Chemistry Laboratory (0 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

Corequisite: CHE 1100 Principles of Chemistry or permission of department chair

This course is an introduction to the academic chemistry laboratory and is intended for students with no prior experience. The course will cover health and safety issues, preparation and use of common glassware/lab equipment, proper recording of qualitative and quantitative observations, and common lab techniques. (General Studies—Level II, Natural Science, completion of both CHE 1150 and CHE 1100 with passing grades is required to receive Gen-

eral Studies credit and GT—SC1)

CHE 1800-4 General Chemistry I (4 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests and high school chemistry; and either three years high school math or college

algebra

A comprehensive study of the facts, concepts, and laws of chemistry. The course is designed to meet the requirements of students majoring in chemistry, medicine, medical technology, biology, physics and other fields requiring a strong background in chemistry. (General Stud-

ies—Level II, Natural Science) (GT-SC1)

CHE 1810-4 General Chemistry II (4+0)

Prerequisites: CHE 1800 and minimum performance standard scores on reading, writing, and mathematics

preassessment placement tests (completion of CHE 1810 and 1850 with a passing grade is

required to receive General Studies credit)

A continuation of CHE 1800. This course provides a comprehensive study of the facts, concepts, and laws of chemistry. The course is designed to meet the requirements of students majoring in such areas as chemistry, medicine, medical technology, biology, physics, and other fields requirements.

ing a strong background in chemistry. (General Studies—Level II, Natural Science)

CHE 1850-2 General Chemistry Laboratory (1 + 3)

Prerequisite: CHE 1800. Completion of CHE 1810 or CHE 1800 with a passing grade is required to receive

General Studies credit.

Corequisite: CHE 1810

This course introduces basic laboratory techniques and will reinforce/explore concepts introduced in CHE 1800 and CHE 1810. A one-hour recitation will be utilized to discuss theoretical and procedural aspects of laboratory experiments. Chemical literacy including report writing

and reference sources will be introduced. (General Studies—Level II, Natural Science)

CHE 2100-5 Introduction to Organic and Biological Chemistry (4 + 2)

Prerequisite: CHE 1100

A study of the elements of organic and biological chemistry. This course satisfies requirements for nursing programs and other fields requiring a survey of organic and biological chemistry.

CHE 2300-3 Inorganic Chemistry (2 + 2)

Prerequisites: CHE 1800, CHE 1810, CHE 1850

This course introduces and reviews such topics as bonding and reactivity of inorganic sub-

stances, acid-base concepts, descriptive chemistry of the main group elements, and transition elements/coordination chemistry. Laboratory deals with the synthesis and characterization of

inorganic compounds.

CHE 2710-3 Introduction to Criminalistics (3 + 0)

Prerequisite: CHE 1100 or CHE 1800

This course introduces the student to the application of science at crime scenes and the crime

laboratory. It provides a survey of forenic science including pathology, entomology, anthropology, microevidence, drug analysis, toxicology, dactyloscopy, firearm examination, serol-

ogy, hair and fiber analysis, soil and glass analysis, and crime scene processing.

CHE 2711-1 Introduction to Criminalistics Laboratory (0 + 2)

Prerequisite: CHE 1150 or CHE 1850

Corequisite: CHE 2710

This course introduces the student to laboratory methods involved with presumptive tests for biological fluids, fire arms examination, document examination, pattern analysis and finger-

print examination.

CHE 2750-3 Arson and Explosives (3 + 0)

Prerequisite: CHE 1100

This course will include a study of the chemistry of fires and explosions. Arson scene evidence collection and preservation techniques will be discussed, as well as techniques for analyzing

the residues collected.

Field Testing and Laboratory Analysis of Drugs (1+0) CHE 2760-1

Prerequisite:

The course introduces the theory and practice of using a drug-testing kit to screen for the

presence or absence of controlled substances.

CHE 3000-3 Analytical Chemistry (3 + 0)CHE 1800, CHE 1810, CHE 1850 Prerequisites:

Corequisite: CHE 3010

This course studies the fundamentals of analytical chemistry, including principles of gravimetric, volumetric, potentiometric, and spectrophotometric analysis. Chemical literacy as it applies to analytical chemistry will be introduced.

CHE 3010-2 Analytical Chemistry Laboratory (0 + 4)

CHE 1800, CHE 1810, CHE 1850 Prerequisites:

Corequisite: CHE 3000

This course introduces laboratory methods in analytical chemistry, including techniques of

gravimetric, volumetric, potentiometric, and spectrophotometric analysis.

Environmental Chemistry (3 + 0) CHE 3050-3

CHE 1800, CHE 1810, CHE 1850, CHE 3100 Prerequisites:

This course is a study of the sources, reactions, transport, effects, and fates of chemical spe-

cies in water, soil, air, and biota environments.

CHE 3100-4 Organic Chemistry I (4+0)

CHE 1800, CHE 1810, CHE 1850; satisfaction of Level I General Studies course require-Prerequisites:

An introduction to the study of nomenclature, structure, synthesis, reactions, properties, identification, and mechanisms of both aliphatic and aromatic organic compounds. (General

Studies—Level II, Natural Science)

CHE 3110-3 Organic Chemistry II (3+0)

CHE 3100 Prerequisite:

This course is a continuation of CHE 3100 and includes a study of the nomenclature, structure, physical/chemical/spectroscopic properties, synthesis, and reactions of the major fami-

lies of organic compounds.

CHE 3120-2 **Organic Chemistry Laboratory I (0 + 4)**

Prerequisites: CHE 1800, CHE 1810, CHE 1850; satisfaction of Level I General Studies course requirements

Pre/Corequisite: CHE 3100

The focus of this course is an introduction to basic laboratory techniques of preparation, purifi-

cation, and identification of organic compounds. (General Studies—Level II, Natural Science)

CHE 3130-2 Organic Chemistry Laboratory II (0 + 4)

CHE 3100 and CHE 3120 Prerequisites:

Pre/Corequisite:: CHE 3110

This course is a continuation of CHE 3120. It is a qualitative organic analysis course in which both classical and instrumental techniques are utilized to elucidate organic structure. Chemical literacy will be enhanced through the use of web based chemical literature search and

American Chemical Society based report writing.

CHE 3190-4 Survey of Physical Chemistry (4 + 0)

CHE 3000, MTH 1410, PHY 2010 Prerequisites:

This course provides a survey of the principles of thermodynamics, equilibrium, atomic/ molecular structure, electrochemistry, kinetics, quantum mechanics, and spectroscopy. It is designed to meet the requirements for the B.A. in Chemistry and the B.S. in Chemistry with

the Criminalistics concentration.

CHE 3200-1 Survey of Physical Chemistry Laboratory (0 + 3)

CHE 3000, MTH 1410, PHY 2010 or PHY 2311 Prerequisites:

This course covers laboratory explorations of key concepts in thermodynamics, equilibrium, kinetics, and gas laws. Technical writing is emphasized; students are expected to use a personal

computer to complete lab reports.

CHE 3250-4

Physical Chemistry I (4 + 0) MTH 2420, PHY 2011 or PHY 2311; CHE 3000 Prerequisites:

This course is a comprehensive study of the principles of gas dynamics, thermodynamics, solution properties, kinetics, and a survey of electrochemistry and reaction dynamics. Litera-

ture searches related to historical and current topics in chemistry will be required.

CHE 3260-4 Physical Chemistry II (4+0)

Prerequisites: CHE 3250; PHY 2020 or PHY 2331

This course is a comprehensive study of the principles of quantum mechanics, quantum chemistry, atomic structure, molecular structure, symmetry, and spectroscopy. Literature searches related to historical and current topics in chemistry will be required.

CHE 3280-2 Physical Chemistry Laboratory I (0 + 4)

CHE 3250 Corequisite:

This course provides a laboratory study of the basic principles of gas dynamics, thermodynamics, equilibrium, kinetics, and data-handling techniques. Technical report writing, and

literature search will be emphasized.

CHE 3290-2 Physical Chemistry Laboratory II (0 + 4)

Prerequisite: CHE 3280 CHE 3260 Corequisite:

This course provides a laboratory study of the basic principles of quantum mechanics and

spectroscopy. Technical report writing, and literature search will be emphasized.

CHE 3600-4 Crime Scene Investigation I (3 + 2)

CHE 2700 or CHE 2710 and CHE 2711 Prerequisite:

> The course is designed for field investigators seeking a minor in criminalistics. Course material presented includes identification; individualization; collection and preservation of physical evidence; approach, processing, and investigation of crime scenes; establishing identity;

trace evidence; impressions evidence; blood; and other biological evidence.

CHE 3610-4 Crime Scene Investigation II (3 + 2)

CHE 3600 Prerequisites:

This course is a continuation of CHE 3600 for field investigators seeking a minor in criminalistics. Course materials include specialized instruction in the following topics: drugs and toxicology; arson and explosives, sexual assault investigation, burglary investigation, motor

vehicle investigation, and homicide investigation.

CHE 3700-4 Criminalistics I (3 + 3)

CHE 2710, CHE 30000, CHE 3010, CHE 3110, CHE 3130 Prerequisite:

This course introduces the theory and practice of forensic science with an emphasis on the analysis and interpretation of physical evidence. Class and laboratory introduce forensic microscopy, crime scene investigation, crime scene evidence search, forensic chemistry, toxi-

cology, drug analysis, and fire debris analysis.

CHE 3710-4 Criminalistics II (3 + 3)

CHE 3700 Prerequisite:

This course is a continuation of CHE 3700 that focuses on forensic biology, DNA analysis and

hair analysis. The development of oral and written communication skills is emphasized.

CHE 3890-1-3 Science and Public Policy: Variable Topics (1-3 + 0)

Prerequisites: any lower-division science course and ENG 1010, or permission of instructor

This course provides a working familiarity with the technical issues that influence major public policy decisions. Policy issues and relevant technologies and their interactions are discussed. Course content varies according to current topics, such as health, environment, and

energy. This course may be repeated under different topics.

CHE 4010-3 Advanced Organic Chemistry (3 + 0)

CHE 3110; CHE 3190 or CHE 3260 Prerequisites:

This course provides an integrated study of techniques used for the investigation of organic reaction mechanisms and a survey of the nature of important organic reaction intermediates.

CHE 4020-3 Synthetic Organic Chemistry (3 + 0)

CHE 3110, CHE 3130; CHE 3190 or CHE 3260 Prerequisites:

A unified approach to classical and modern synthetic chemistry, including aspects of

mechanism, and stereochemistry.

CHE 4100-3 Instrumental Analysis (3 + 0)

CHE 3000, CHE 3010, CHE 3100; CHE 3190 or 3250 Prerequisites:

This course presents the theory and practice of instrumental methods of analysis. Topics include: electronics; atomic and emission spectroscopy; UV-VIS spectroscopy; fluorescence and phosphorescence spectrophotometry; emission and absorption spectroscopy; infrared spectrometry; Raman spectroscopy; NMR electroanalytical methods; HPLC, GC, SPE, CE,

and other chromatography methods.

CHE 4110-2 **Instrumental Analysis Laboratory (0 + 6)**

Prerequisites: CHE 3000, CHE 3010, CHE 3100, CHE 3110; CHE 3190 or CHE 3250

Corequisite: CHE 4100

This coure provides a laboratory study of instrumental methods, employing electromagnetic radiation, magnetic resonance, mass spectrometry, chromatography, and electrochemistry.

Chemical literacy and report writing are emphasized.

CHE 4300-3 Advanced Inorganic Chemistry (3 + 0)

CHE 3190 or CHE 3260 Prerequisite:

This course provides an advanced study of atomic and molecular structure, bonding and bond energies, coordination theory, x-ray crystallography, solvent systems, and periodic relationships of the elements. Advanced techniques of literature search and chemical literacy will

be incorporated within the course.

CHE 4310-4 Biochemistry I (4+0)

Prerequisite: CHE 3100

This course is an introduction to the chemistry of living systems with emphasis placed on metabolism, bioenergetics, molecular strategy, and regulation. Applications to the related

fields of nutrition, human physiology, and medicine are stressed.

CHE 4320-3 Biochemistry II (3 + 0)

Prerequisite: CHE 4310

This course is a continuation of Biochemistry I (CHE 4310). The course theme and emphasis is current biochemical research results. Topics covered include enzyme catalysis, biosynthesis, membrane biochemistry, genetic engineering, molecular basis of cancer, neurochemistry, biochemical detoxification, molecular basis of inherited diseases, genetic transposition, free radical theory of aging, and selected topics in human nutrition. Technical writing and litera-

ture search is included.

CHE 4350-1 Biochemistry Laboratory (0+3)

Prerequisite: CHE 4310

This course introduces basic techniques and instrumentation of biochemical research and

offers opportunities for independent work in both the library and the laboratory.

Chemistry Work Experience/Cooperative Education (0 + 40) CHE 3010, CHE 3110 CHE 4650-4

Prerequisites:

Laboratory field experience for students majoring or minoring in chemistry. A total of 600

hours of work experience will be required.

CHE 4700-5 Criminalistics Internship I (0 + 15)

Prerequisite:

Laboratory internship experience for criminalistics majors.

CHE 4710-3 Criminalistics Internship II (0 + 9)

Prerequisite:

Laboratory internship experience for chemistry majors with a concentration in criminalistics.

(Senior Experience)

CHE 4950-3 Senior Experience in Chemistry (3 + 0)

senior standing; CHE 3000, CHE 3110; either CHE 3190 or CHE 3250; and satisfaction of Prerequisites:

Level I and II General Studies course requirements

This is a capstone experience for students seeking a major in chemistry. The course consists of library research in conjunction with a chemistry faculty member, concluding with the submission of a significant paper on some area of chemistry; presenting the paper to the Chemistry Department; and completing four American Chemical Society examinations.

(Senior Experience)

CHICANA AND CHICANO STUDIES

CHS 1000-3 Introduction to Chicana/o Studies (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement

> This course introduces the range of interdisciplinary curricula which constitutes Chicana/o Studies. It is history and social science based and also analyzes, among other themes, the Chicana/o and art, literature, education and politics. (General Studies-Level II, Social Sciences; Multicultural) (GT-

CHS 1020-3

CHS 1010-3 History of Meso-America: Pre-Columbian and Colonial Periods (3 + 0) (HIS 1910)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course examines indigenous cultures of Meso-America during the pre-Columbian period with a focus on social, political, religious, artistic, scientific, and engineering artifacts before and after the conquest of Mexico and the Southwestern U.S. by Spain. Credit will be granted for only one prefix: CHS or HIS. (General Studies—Level II, Historical) (GT-HI1)

History of the Chicana/o in the Southwest: 1810 to Present (3 + 0) (HIS 1920) Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests This course concentrates on the era from Mexican Independence (1810-1821) through the modern Chicana/o era. This historical survey provides an overview of the Mexican population born and living in the Southwestern United States and provides specific attention on Chicana/o history in Colorado. Credit will be granted for only one prefix: CHS or HIS. (Gen-

eral Studies—Level II, Historical; Multicultural) (GT-HI1)

CHS 2000-3 Living Culture and Language of the Mexican and Chicano (3+0) (ANT 2360)

Prerequisite: CHS 1000 or CHS 1020

This course traces the fusion of cultures and dialects of the Spanish-speaking Southwest into elements that characterize Chicano intracultural and intercultural diversity. Credit will be

granted for only one prefix: CHS or ANT.

CHS 2010-3 Survey of Chicana/o Literature (3 + 0) (ENG 2410)

Prerequisite: CHS 1000 or permission of instructor

This course reviews major literary genres associated with Chicana and Chicano creative expression from the 1800s to the present including poetry, drama, and the novel. Credit will be granted for only one prefix: CHS or ENG. (General Studies-Level II, Arts and Letters)(GT-

CHS 2020-3 Chicano Poetry and Drama (3 + 0) (ENG 2420)

Prerequisite: CHS 2010 or permission of instructor

This course is an intensive study of Chicano poetic and dramatic arts as they attempt to create a new reality. The course will also equip the student with a basic approach to poetry and drama as a craft through production. Credit will be granted for only one prefix: ENG or CHS.

Suitable for non-English majors.

CHS 2100-3 Women of Color (3 + 0) (AAS 2100, NAS 2100, WMS 2100)

Prerequisites: AAS 1010, CHS 1000, NAS 1000, or WMS 1001; or permission of instructor

Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of these differences and their significance according to race/ ethnicity and class are central to this course. The similarities among diverse groups of women will also be examined in order to better understand the complexity of women's lives. To focus the discussion the course will cover work; families; sexuality and reproduction; violence; religion; and politics. Credit will be granted for only on prefix: WMS or AAS or CHS or NAS. (General Studies—Level II, Social Sciences; Multicultural) (GT-

SS3).

CHS 2110-3 The Chicano in Aztlan (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

This course focuses on three major motifs associated with the socio-historical development

of the Chicano in the Southwest: land, farm labor, and urban enclave.

Mexico: Independence to Revolution, 1810-1910 (3+0) (HIS 2820) CHS 2120-3

CHS 1010/HIS 1910 Prerequisite:

This course describes the social, political, cultural, and economic development of the Mexican people during the 19th century. Provides an analysis of how race, class, gender, regionalism, and foreign intervention influenced Mexican history throughout the era. Credit will be

granted for only one prefix: CHS or HIS.

CHS 2130-3 Mexico: Revolution to the Present, 1910-1990s(3+0) (HIS 2830)

CHS 1010/HIS 1910, CHS 2120/HIS 2820, or permission of instructor Prerequisites:

This course traces the social, political, cultural, and economic effects of the 1910 Revolution on 20th century Mexico. It also describes how the United States government and private citizens have influenced Mexico's history. Credit will be granted for only one prefix: CHS or HIS.

CHS 3010-3 The Mexican Revolution (3 + 0) (HIS 3830)

Prerequisite: CHS 1000 or permission of instructor

This course traces the social, political, and economic forces that contributed to the Mexican Revolution (1910-1920). Furthermore, it provides a critical analysis of how leaders, women, the Mexican masses, and the U.S. influenced revolutionary events. Credit will be granted for only one prefix: CHS or HIS.

Contemporary Chicana/o Art 3 (3 + 0) (ARTH 3360) CHS 3025-3

ENG 1010 and ENG 1020 Prerequisite:

This course is a survey of contemporary Chicana/o art. The historical, religious, social and political contexts of the artworks are studied. Students examine recurrent themes, icons, imagery and forms within the historical timeline. This course may not be used as the sole art history elective for art studio majors. Credit will be granted for only one prefix: CHS or ARTH.

CHS 3100-3 The Chicana/o Community (3 + 0) (SOC 3130)

Prerequisites: CHS 1000 or SOC 1010 or permission of instructor; satisfaction of Level I General Studies course requirements

This course provides an in-depth sociological analysis of the Chicana/o community with a focus on the vital role that formal organizations play in generating commmuniy action and social change. This course examines the origins and functions of community organizations and their impact in meeting the social, economic and political needs of the Chicana/o community. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences; Multicultural)

CHS 3200-3

Chicanos and the Law (3 + 0) (CJC 3720) CHS 1000 or CJC 1010 or permission of instructor and satisfaction of all General Studies Prerequisites: Level I course requirements

This course offers the student a complex understanding of the laws, the legal system, and how they relate to individual Chicanos and Chicano community rights. The dynamics of difference, cultural conflict with respect to race, and issues concerning ethnicity will be examined. Credit

will be granted for only one prefix: CHS or CJC. (Multicultural)

CHS 3210-3 The Chicano Family (3 + 0) (SOC 3470)

Prerequisites: CHS 1000 or permission of instructor; and satisfaction of all Level I General Studies course

requirements

This course provides an in-depth analysis of the Chicano family as a social institution. The course covers the social and economic history of the Chicano family in the Southwest and examines contemporary patterns of urban Chicano family life in a changing society. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences)

CHS 3300-3 Education of Chicano Children (3 + 0) (EDU 3120)

Prerequisite:

This course presents the Chicano perspective on current public education policy and its implementation in the schools. Examines learning and teaching differences in students and teachers.

Credit will be granted for only one prefix: ČHS or EDU.

CHS 3400-3 The Chicano Novel (3 + 0) (ENG 3480)

Prerequisite: CHS 2010 or permission of instructor

This course deals with origins, themes, and techniques that characterize the Chicano novel. It is an in-depth study of the best examples of literary production in both Spanish and English. Credit will be granted for only one prefix: CHS or ENG. Suitable for non-English majors.

CHS 3410-3 Chicano Folklore of the Southwest (3 + 0) (ENG 3490)

Prerequisite: CHS 2000 or permission of instructor

This course accents the study of oral and written folklore as a genre in Chicano history and culture. Its focus is upon tales, traditions, belief, and humor as a means to gain insight into what is culturally specific. Credit will be granted for only one prefix: CHS or ENG. Suitable for non-English majors.

CHS 3460-3 La Chicana (3 + 0) (WMS 346D)

Prerequisite: CHS 1000 or permission of instructor

This course provides an in-depth analysis of the history and roles of Mexican-American women. It surveys the representation of La Chicana in Chicano studies and women's studies and articulates her contributions to Chicano society, as well as to the dominant culture. Credit will be granted for only one prefix: CHS or WMS.

CHS 3600-3 Mexico and Chicana/o Politics (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

This course reviews the main approaches which have been utilized, in the past and in the

present, to comprehend Mexico and Chicana/o politics.

CHS 3700-3 Psychology of Group Prejudice (3 + 0) (AAS 3700/PSY 3700/WMS 3700)

Prerequisites: PSY 1001 or AAS 1010 or CHS 1000 or WMS 1001

This course covers psychological theory and research that examines causes, consequences, and ways of reducing prejudice and discrimination. Various expressions of prejudice and discrimination are addressed, most notably racism and sexism. Credit will be granted for only

one prefix.

CHS 3800-3 Topics in Chicano Studies (3 + 0)

Prerequisites: CHS 1000 or permission of instructor; and satisfaction of Level I General Studies course

requirements

Facilitates in-depth study of selected topics in Chicano studies.

CHS 3801-3 Mexico: History, Life, and Culture (3 + 0) (MDL 3800)

Prerequisite: one year of Spanish or permission of instructor

This course is part of a study abroad program and provides an interdisciplinary understanding of Mexican civilization. It specifically deals with a social and historical approach to Mexican society and examines the traditions and institutions that shape the Mexican way of life.

Credit will be granted for only one prefix: CHS or MDL.

CHS 4010-3 The Chicano Movement (3 + 0)

Prerequisites: CHS 1000, CHS 3100 or permission of instructor

Carlos Castaneda has become a major literary figure and the scope of his production deserves

a serious and detailed analysis.

CHS 4200-3 Seminar: Carlos Castaneda (3 + 0) (ENG 4130)

Prerequisite: at least junior standing or permission of instructor

This course is a serious and detailed analysis of major literary figure Carlos Castaneda and

the scope of his production. Credit will be granted for only one prefix: CHS or ENG.

CHS 4850-3 Research Experience in Chicana/o Studies (3 + 0)

Prerequisites: six hours of upper-division courses in CHS or permission of instructor and preferably senior

standing

This course enhances the development of research skills, theory construction, and application of theory to the discipline of Chicana/o studies. The course requires an in-depth research project and a research paper on a selected topic. It emphasizes critical understanding of the literature and the writing of a research paper. The course is designed primarily for Chicana/o

studies majors and minors. (Senior Experience)

CRIMINAL JUSTICE AND CRIMINOLOGY

CJC 1010-3 Introduction to the Criminal Justice System (3 + 0)

The course examines the criminal justice system in the United States including its problems and reactions to prevailing social forces. The continuum of the justice system from victims of crime, the police, the courts, to corrections, is surveyed. The topics covered are for students who are interested in the justice system or who are going to major or minor in criminal jus-

tice. (General Studies-Level II, Social Sciences)

CJC 1450-3 Introduction to Corrections (3 + 0)

Prerequisites: CJC 1010

This course examines the history of institutional and community based corrections in the United States. The course includes an overview of local, state, and federal corrections. Trends of incarceration and community supervision rates, including the breakdown by race/ethnic-

ity, gender and type of offense will be studied.

CJC 2000-3 Introduction to Legal Studies (3 + 0)

This course will provide students with an overview of the United States legal system. Topics such as court structure, law school, the practice of law and ethical issues will be covered. This

course is a requirement for the Legal Studies minor.

CJC 2020-3 Research Methods and Basic Statistics for Criminal Justice Professionals (3 + 0)

Prerequisites: Satisfaction of the Level I mathematics requirement and CJC 1010

This course is an introduction to basic research methods and statistics used in criminal justice research. The course explores quantitative and qualitative methods used to study crime and criminology. This course provides a basic understanding for criminal justice professionals as consumers of applied research findings, as well as lays the foundation for those undergraduates seeking to pursue careers in crime analysis and/or graduate studies.

CJC 2100-3 Criminal Law (3 + 0)

Prerequisites:

CJC 1010

This course acquaints students with common law, statutory crimes and with definitions and distinctions between criminal and civil law. Students are assigned criminal law readings and Colorado criminal code sections.

CJC 2140-3 Criminal Procedure (3 + 0)

Prerequisites:

CJC 1010 This course is a survey of the procedural law governing criminal cases from arrest through final appeal.

CJC 2200-3 Law Enforcement Operations (3 + 0)

This course is an in-depth examination of the complexity and multidimensional aspects of police work in modern America The role and function of the police within the occupational, social, political, and organizational context is presented.

CJC 2210-3 American Policing (3 + 0)

Prerequisites:

CJC 1010

This course provides an introductory examination of law enforcement in the United States, including its historical foundations and emerging issues. The relationship between law enforcement and the community serves as the context within which the challenge of responding to society's multiple and changing public safety needs are addressed. Law enforcement agencies, their administrative practices, and the behaviors of those involved in the delivery of police services are examined from the perspective of democratic values, racial and ethnic diversity, and societal perceptions of police effectiveness.

CJC 2140-3 Criminal Procedure (3 + 0)

Prerequisites:

CJC 1010

This course is a survey of the procedural law governing criminal cases from arrest through final appeal.

CJC 2500-3 Criminal Investigation (3 + 0)

Prerequisites:

CJC 1010

This course includes a survey of processes, procedures and qualifications needed to conduct, record, report and manage a criminal investigation. The course includes information about supporting victims and witnesses of crime. The use of forensic science and other technical assistance is examined as support for other procedures.

CJC 2910-3 Critical Issues in Criminal Justice Variable Topics (3 + 0)

Prerequisites:

CJC 1010

This course explores issues in the rules of evidence and the admissibility of evidence.

CJC 3110-3 Constitutional Issues in Criminal Procedure and Evidence (3 + 0)

Prerequisites:

CJC 1010

This course will study the U.S. Constitution and the function of the U.S. Supreme Court in interpreting that document, especially those issues related to criminal procedure, evidence and the admissibility of evidence. It will consist of readings of decisions in the areas of privacy, due process, equal protection and specific amendments to the Constitution related to the administration of criminal justice in the United States.

CJC 3130-3 Victimology (3 + 0)

Prerequisites:

CJC 1010

This course explores the history, causes, nature, and type of criminal victimization, the impact of crime on victims, as well as the methods by which the justice system respond to victims. This course will also examine the Colorado Victims' Rights Amendment.

CJC 3140-3 **Juvenile Law (3 + 0)**

Prerequisites: CJC 1010

This course analyzes the operation of the juvenile court, substantive and due process rights of minors, and legal reasoning underlying the juvenile justice system.

CJC 3200-3 Criminal Justice Administrative Behavior (3 + 0)

Prerequisites: CJC 1010

This course is a comprehensive analysis of criminal justice organizational behavior and management. Roles and values in management, administrative alternatives, and the role of man-

agers as an agent of change are studied.

CJC 3280-3 Classification and Case Management of the Offender (3 + 0)

Prerequisites: CJC 1010

This course is a study of criminal offender classification concepts, principles, and techniques. Interview techniques, case diagnosis, and use of testing programs as classification aids are applied in the classroom. Operation of reception and diagnostic centers and the principles of

the treatment process are discussed.

CJC 3290-3 Probation, Parole and Community Corrections (3 + 0)

Prerequisites: CJC 1010

This course examines the history, development, principles and operation of community-based corrections. The selection, supervision and prediction of success, experimental programs and current trends are studied. Students prepare a presentence investigation report.

CJC 3340-3 Correctional Problem Solving (3 + 0)

Prerequisites: CJC 1010

This course is an introduction to the special problems and needs of the adult offender. The theory and practice that create a positive counseling milieu for the offender both within and outside the prison setting are studied. The course content includes the development of skills

that make problem solving with the offender successful.

CJC 3350-3 Juvenile Justice and Delinquency (3 + 0)

Prerequisites: CJC 1010 or permission of instructor

This course is a study of the nature and causes of delinquency and crime, criminal personality and societal processes. This course includes an introduction to the topological analysis of juvenile delinquency and an examination of the concepts of prevention, control and predic-

tion.

CJC 3400-3 Criminological Theories (3+0)

Prerequisites: CJC 3350

The characteristics of criminal behavior, including biological, psychological, social, and cultural links to deviant and antisocial behavior are studied. This course examines criminal self-

conceptions, criminal personality and serial criminals.

CJC 3410-3 Criminal Justice and the Social Structure (3 + 0)

Prerequisites: CJC 1010

This course examines criminal justice systems in relation to social power, class structure, ecological patterns, sub-cultural developments, and processes of change in the community and in the criminal justice structure. Culture is examined in order to comprehend the interaction between subcultures in the larger society, as well as develop an understanding of cultural competence. The course evaluates the ambivalence in the social processes of law enforcement,

courts and corrections, and the problems of professionalization.

CJC 3450-3 Behavior Development (3 + 0)

Prerequisites: CJC 3400

Basic behavior modification principles and techniques for professionals, probation officers

and correctional workers are studied. The course includes a study of critical ethical and legal

issues.

CJC 3510-3 Drug Abuse: Legal Issues and Treatment (3 + 0)

Prerequisites: at least junior standing or permission of instructor

An intensive study of the legal problems of illicit drug trafficking, control of drug abuse, and alternative approaches. Emphasis on major judicial decisions and administrative procedures used by criminal and civil authorities, the behavior of the addict, the impact of international

conventions, and prognosis for future criminal justice system responses.

CJC 3700-3 Civil Law for Criminal Justice Administration (3 + 0)

Prerequisites: at least junior standing

This course provides students with fundamental concepts of civil law as reflected in the law of civil procedure and civil law court system. The course addresses areas of civil liability for criminal justice practitioners and allows students to examine public purposes of the law and

to develop theories of civil liability.

CJC 3710-3 Women and the Law (3 + 0) (YVMS 3310)

Prerequisites: WMS 1001 or permission of instructor

Examination of women's legal rights under the U.S. legal system and Colorado law. Deals with family law, Equal Employment Opportunity Acts, housing, credit and finance, welfare, social security, abortion, prostitution, rape, and the ERA. Credit will be granted for only one prefix: CJC or WMS.

CJC 3720-3 Chicanos and the Law (3 + 0) (CHS 3200)

Prerequisites: CHS 1000 or CJC 1010

The course offers the student a complex understanding of the laws, the legal system, and how they relate to individual Chicanos and Chicano community rights. The dynamics of difference, cultural conflict with respect to race, and issues concerning ethnicity will be examined. Credit will be granted for only one prefix: CJC or CHS. (Multicultural)

CJC 3850-3 Corporate Security Management (3 + 0)

Prerequisites: CJC 1010, CJC 2010

An in-depth examination of the role, techniques, and strategies of corporate security management; the role of management; OSHA regulations; and institutional security.

CJC 4050-2-3 Criminal Justice Professional Seminar (Variable Topics) (2-3 + 0)

Prerequisite: permission of department chair or senior standing

A variable titled course focusing on the synthesis of concepts and skills present in the criminal justice system. Designed to provide the criminal justice professional theories and their application to criminal justice policy implementation. May be repeated under different titles.

CJC 4100-3 Advanced Jurisprudence (3 + 0)

Prerequisites: senior standing

This course analyzes the nature of justice and law within the context of time and culture. It is designed to allow students to examine the function of law and the impact of social values.

CJC 4300-3 Institutional Corrections (3 + 0)

Prerequisites: CJC 1010, CJC 1450

This course will examine the origins, philosophies, and goals of adult and juvenile institutions within the American correctional system. It includes the study and analysis of punishment, including theories, practices, system analysis, treatment of offenders and proposed solutions. This course will examine the various types of correctional institutions, their mission, physical structure, management, care and treatment of offenders, discipline and the development and recognition of the substantive and procedural rights of those confined.

CJC 4310-3 Correctional Law (3+0)

Prerequisites: senior standing

Constitutional rights and limitation of rights of criminal offenders in the correctional setting are analyzed. The effects of court rulings on correctional administrators, staff, agencies, and operations are discussed and reviewed.

CJC 4400-3 Criminal Justice Planning, Policy Analysis, Evaluation and Budgeting Systems (3 + 0)

Prerequisites: CJC 3200 or senior standing

A comprehensive examination of the planning processes within the criminal justice system; the methodologies of program evaluation; the tools and techniques of policy analysis and formulation and fiscal management within criminal justice agencies; preparation of budget documents; and management of the politics of the budget process are studied and evaluated.

CJC 4410-3 Contemporary Police Administration (3 + 0)

Prerequisites: senior standing

This course is a study of contemporary police management practices. The organizational approach to community policing is examined. A case study of a "community-oriented" police department is analyzed. An in-depth study of a department's philosophy, personnel policies, organizational structure, and other practices is completed.

CJC 4420-5 Practicum in Corrections (3 + 4)

Prerequisites: permission of instructor

This course is a study of programs and practices of agencies in the correctional system. Students are supervised while performing relevant tasks at correctional agencies to further develop their skills.

CJC 4430-3 Comparative Criminal Justice (3 + 0)

Prerequisites: CJC 1010 or permission of instructor

This course includes a survey of worldwide criminal justice philosophies, systems and practices, and an examination of contemporary studies of criminal justice organizations and legal

systems in major and emerging nations.

CJC 4610-3 Current Problems in Criminal Justice Administration (3 + 0)

Prerequisites: senior standing

This course examines criminal justice practices, processes, and philosophies that affect agency

strategies.

CJC 4650-3 Ethics for the Criminal Justice Professional (3 + 0)

Prerequisites: senior standing

This course is an in-depth analysis of ethical issues which confront the criminal justice professional. It includes an examination of the issues of covert surveillance, regulation of morals, equity and fairness, "blowing the whistle," and the public interest versus private freedom.

(Senior Experience)

CJC 4675-3 Seminar in Criminal Justice Research (3 + 0)

Prerequisites: senior standing, completion of CJC 1010 and a minimum of 15 additional credit hours of CJC

courses

This course provides the student with information and practical experience in research methods for the criminal justice system, including: finding and evaluating available research, the tools, techniques and methods of research, legal research and the writing of a research paper

or report.

CJC 4676-1 Criminal Justice Research - Lab (0 + 2)

Prerequisites: senior standing, completion of CJC 1010 and a minimum of 15 additional credit hours of CJC

courses

This course allows student to complete a senior level research paper that will be a major project. The student must be concurrently enrolled in CJC 4675. The course involves a minimum of 30 hours of work outside of the classroom and in addition to the work required for CJC

4675.

CJC 4750-3 Crime Prevention and Loss Reduction (3 + 0)

Prerequisites: CJC 1010, CJC 2010, or permission of instructor

An in-depth analysis of the concept, techniques, and strategies of crime prevention and loss

reduction, with emphasis upon the selection and implementation of comprehensive preven-

tion systems and loss-reduction strategies.

COMPUTER INFORMATION SYSTEMS

CIS 1010-3 Introduction to Computers (3 + 0) (CSS 1010)

This course is designed for students who wish to use a microcomputer in their academic pursuits and their career. The student will learn how to use a personal computer with application software featuring word processing, spreadsheets, file management, graphics, electronic communications, and thesaurus/spelling checker. This course also reviews the historical, societal, ethical, and technological aspects of computers. Credit will be granted for only one prefix:

CIS or CSS.

CIS 1080-3 The World Wide Web, the Internet and Beyond (3 + 0) (CSS 1080)

This course is for anyone who uses or wants to access the World Wide Web or use the Internet. Students will master a set of basic skills including using electronic mail, logging in to remote computers, obtaining online documents and software, and using a browser like Netscape to search and explore the World Wide Web for information. Students will also learn the fundamentals of Web page construction. Credit will be granted for only one prefix: CIS or CSS.

CIS 2010-3 Computer Applications for Business (3 + 0)

Prerequisites: CIS/CSS 1010 with a grade of "C" or better, or appropriate score on the Computer Informa-

tion Systems computer literacy screening test

This course is an introduction to fundamental business information systems from a business perspective. It includes computer hardware and software, use of business productivity tools and the Internet, and an introduction to fundamental and functional business information systems. This course is primarily intended for students with majors in the School of Business.

CIS 2110-3

Structured Problem Solving in Information Systems (3 + 0)

Prerequisite: CIS 201

This is a problem solving course in which the tools of structured design are used to design computerized solutions to business problems. Procedural programming languages are used to implement these designs. Emphasis is placed on the implementation of the three logic constructs in procedural languages: sequence, selection and iteration. Students will be required to develop, test and debug programs in one or more procedural languages, using a variety of hardware and operating system platforms.

CIS 2300-3 Business Statistics (3 + 0)

Prerequisites:

MTH 1320

This is a course in the application of statistical inference and translation of quantitative data into information which can be used in business decision-making. This course will cover the topics of descriptive statistics, probability theory, probability distributions, sampling distributions, point estimates, confidence intervals, and tests of hypotheses, in the context of management decision-making skills needed by industry.

CIS 3030-3 Business Web Page Development (3 + 0)

Prerequisite:

CIS 2110

This is a course in business Web page development. Specifically, the student will learn how to plan the development of a Web site, compose Web site specifications, apply coding to the development of any kind of Web site, and find and use development resources. The student will use a leading code-centric text editor to aid in all course Web page development projects. The student will also be introduced to a leading graphical editing tool for supplemental use.

CIS 3050-3 Fundamentals of Systems Analysis and Design (3 + 0)

Prerequisite:

CIS 2110

Systems analysis focuses on the study of existing information systems, problem definition, data collection, and new system requirements. System design focuses on improving the information system—selecting alternate solutions, determining the best solution, and documenting that solution.

CIS 3060-3 Database Management Systems (3 + 0)

Prerequisite:

CIS 2110

This course provides an introduction to the design, development, implementation, and manipulation of databases as well as covering the essentials of file processing. The student will create information level database designs from a set of user requirements and implement those designs employing a 4GL database tool. Finally, the student will be introduced to current topics in the database field, which may include Data Warehousing, Distributed Systems, Object-Oriented Systems, Spatial Databases, and Database Driven Web Sites.

CIS 3090-3 Principles of Computer Operating Systems (3 + 0)

Prerequisite:

CIS 2110

This course provides an introduction to operating system concepts. The UNIX operating system is used to illustrate how these concepts are implemented in typical business information systems. Topics addressed include the purpose and uses of an operating system, resource management (e.g., memory, processes, I/O and files), control language, shells, scripts and system utility software. It is not a UNIX system administration course.

CIS 3130-3 Business Applications in C (3 + 0)

Prerequisite:

CIS 2110

This course covers the major elements of the C programming language. Structured design tools and techniques are used to develop problem solutions that are implemented in the C programming language.

CIS 3141-3 Multimedia Business Information Systems Development (3+0)

Prerequisite:

CIS 2010

This course serves as an introduction to the authoring systems used to produce microcomputer based multimedia business information systems. Emphasis is on object oriented design and operation of business information systems within a visually oriented environment. The process of design and implementation is combined with an exposure to multimedia theory. The multimedia theory applied is within the business information systems context. The course focuses on the integration of business systems in the assembly of a multimedia program.

CIS 3142-3 Advanced Multimedia Business Information Systems Development (3 + 0)

CIS 2110 and either CIS 3141 or COM 2450 Prerequisites:

This course teaches an advanced level of systems analysis and design for multimedia business systems. In a team environment, the student will analyze and evaluate existing multimedia components, and then utilize them to create a multimedia information system. The product will include design of the graphical user interface and the accordant programming environment necessary to interact with databases and other information systems. Students will complete an application project which requires the analysis of a business problem, development of an appropriate program design, creation of an object-oriented microcomputer-based multimedia solution, and a plan for implementation in an organization.

CIS 3145-3 Business Application Development with Visual Basic (3 + 0)

Prerequisites:

This course provides a visual development environment to develop object-oriented, eventdriven GUI business applications. Visual Basic is a graphical user interface RAD tool for development of Web and Windows applications. Students will complete an application project that requires the analysis of a problem, development of an appropriate program design, creation of a MSIL solution and a plan for implementation with appropriate documentation.

CIS 3180-3 Problem Solving: An Object Oriented Programming Approach (3 + 0)

Prerequisite:

This is a problem solving course in which object oriented methods are used to design computerized solutions to information systems problems. An Object Oriented Programming (OOP) language such as C++is used to implement these designs. Emphasis is placed on applying the techniques of Abstractions and Decomposition, the root of OOP methods. The primary OOP characteristics of encapsulation, inheritance, and polymorphism will be emphasized in the implementation of these designs. Object Oriented Analysis and Design methodologies such as UML will be introduced.

CIS 3190-3 Business Application and Web Applet Design with Java (3 + 0)

Prerequisites:

The Java programming language is the first truly platform independent language and has gained widespread acceptance for the development of business applications and Web page applets. Students will learn the object-oriented paradigm and use it to develop business and business-related applications and applets in a visual development environment. Students will complete a Java application project that requires the analysis of a business problem, development of an appropriate Java program design, creation of a Java-based solution, and a plan for implementation in an organization.

CIS 3220-3 Analysis of Hardware, Software and User Interfaces for Microcomputer Platforms (3 + 0)

Prerequisite: CIS 2110

The course develops a conceptual understanding of the underlying principles of computer systems hardware, operating systems software and associated use interfaces. These concepts are then applied to the problem of selecting and implementing microcomputer based systems to solve appropriate business problems.

Telecommunication Systems and Networking (3+0) CIS 3230-3

Prerequisite:

This course is a study of the transmission of data, voice, and video including: transmission systems and associated hardware and software; types of networks; introduction to the OSI model, LANs and WANs; and applications of networks.

CIS 3260-3 Information Systems Development with GUI Development Tools (3 + 0) Prerequisite:

CIS 2110

This course introduces the student to RAD tools for contemporary systems development within a GUI development environment. It includes the structure and processes of a high level programming language and familiarizes the student with current development environments for Web and Windows applications (including their capabilities and limitations).

CIS 3270-3 Advanced Computer Applications for Business (3 + 0)

CIS 2010 Prerequisite:

This is a software solutions microcomputer course that teaches problem solving at the business operational level using advanced applications of word processing, presentation graphics, electronic spreadsheets, and database management. Hands-on practice with the advanced Microsoft application suite and computer-based examinations are included.

CIS 3280-3 LAN and WAN Systems for Business (3 + 0)

Prerequisite:

This course presents the technology, architecture, and interconnection of Local Area Networks and Wide Area Networks. The advantages and disadvantages of each technology will be discussed so that well-informed decisions can be made regarding the design of communi-

CIS 3290-3 Operating Systems for End Users (3 + 0)CIS 2010 and CIS 2110

Prerequisites:

This is an end-user oriented microcomputer operating systems course which teaches advanced concepts of the most popular operating systems, both networked and stand-alone. The course includes instruction in theory, plus hands-on experience with each operating sys-

CIS 3300-3 Principles of Quantitative Management Solutions (3 + 0)

Prerequisite:

MTH 1310, MTH 1320, Junior level standing

This is a course in the application of statistical inference and translation of quantitative data into information which can be used in business decision making. This course will cover the topics of index numbers, learning curves, confidence intervals, tests of hypothesis, quality control, and regression and correlation analysis, etc., in the context of production and operations management skills needed by American industry.

CIS 3320-3 Management Science (3 + 0)

Prerequisite

CIS 2300' MTH 1320 or MTH 1410

This course is an introduction to business management science techniques. The course covers the topics of linear programming, project scheduling, inventory models, decision analysis, queuing theory, and simulation, in the context of management decision-making skills.

CIS 3340-3 Advanced Business Statistics (3 + 0)

Prerequisite:

This course is a study of advanced statistical methods and techniques and their application in business decision-making situations. This course will cover the following topics: inferences about population variances, tests of goodness of fit and independence, analysis of variance, experimental design, simple linear regression, multiple regression analysis, regression model building, forecasting, and non-parametric methods.

CIS 3460-3 Data Warehousing and Mining (3 + 0)

Prerequisite:

(CIS 3060 or ACC 3300) and CIS 2300
This course covers the concepts of data warehousing and data mining, and how they are used to convert data into strategic business information. It discusses the design, architecture, planning, and project management of a data warehouse. Data mining techniques (classification, association, genetic algorithms, machine learning, etc.) are discussed as a way to discover useful relationships among data.

CIS 3500-3 Information Systems Security (3 + 0)

Prerequisite:

This course covers a broad range of topics in security for networked and internetworked computer systems. It examines security and integrity objectives in terms of high level policy and presents security services used to address those requirements. Network security architectures are analyzed to insure that critical security functions are protected from unauthorized access and modification. Access control in networked systems is examined.

CIS 4030-3 Web Site Administration (3 + 0)

Prerequisite: CIS 3030 or CIS 3190

This course presents the fundamentals of organizing and administering a business Web site with multiple clients. Students will learn how to design effective, business-oriented Web pages. They will be able to give advice to the users, describe how to put Web pages on a server, how to organize the published information, how to plan a business Web site, specify the hardware, choose the daemon, and install and configure a server. In addition, the course will cover the security issues of the internet access, the different protection techniques, how to maintain a site, content and interpretation of the log files, and tools and techniques required to run an effective business site.

CIS 4050-3 Systems Analysis and Design (3 + 0)

CIS 2110, CIS 3060, CIS 3230 and a course from the CIS Programming Language Group Prerequisites:

This course presents the concepts and provides the experience necessary to design a business information system. Current methodologies and technologies will be surveyed and design concepts from prerequisite courses will be reviewed and expanded. This body of knowledge will be applied in a group project to develop the design of a solution to a business information system problem resulting in a complete formal technical design document. The designs

will be defended in a formal presentation.

CIS 4060-3 Advanced Database Management Systems (3 + 0)

Prerequisites:

CIS 2110, CIS 3060 and a course from the CIS Programming Language Group This course provides an in-depth understanding of database management systems by extending the database concepts and programming skills developed in prerequisite courses. The student will be presented with a variety of realistic business problems and be asked to produce functional solutions to these problems. The course will use the Oracle Developer 2000 or similar software to drive the design and development of business application software.

CIS 4160-3 Advanced Programming Seminar (3+0)

CIS 2110, CIS 3060, and a course from the CIS Programming Language Group Prerequisites:

This course addresses advanced language techniques and their application to Information Systems problems. It discusses the appropriateness of certain languages and programming techniques.

CIS 4260-3 Database Administration (3 + 0)

Prerequisite: CIS 3060

This course covers the functions and responsibilities of the Database Administrator (DBA) in an organization with an integrated, shared Relational Database Management System (RDBMS). The course will focus on the technical requirements of the DBA including enrolling new users, creating the database, backup and recovery of data, security measures, imple-

menting data integrity, and tuning the database.

CIS 4280-3 Network Installation and Administration (3 + 0)

Prerequisite:

This course presents the knowledge and skills necessary to install the network operating sys-

tem and to perform competently in the role of a network administrator.

CIS 4281-3 Network Installation and Administration with UNIX/Linux (3 + 0)

Prerequisite: CIS 3280

This course presents information and skills necessary to begin to perform competently in the role of a network/systems administrator in a Linux/UNIX environment, including installa-

tion, configuration, and management fo the operating system.

CIS 4410-3 Management Information Systems (3 + 0)

Prerequisites: CIS 2110 and MGT 3000

This course provides an overview of management information systems, managerial decision making practices and styles, and requisite information needs. International information concepts, the influence of national cultures on decision making, information use, and on various system design approaches are examined. The course addresses the practical aspects of the

development of management information systems and decision support systems.

TECHNICAL COMMUNICATION AND MEDIA PRODUCTION

COM 2400-3 Basic Nonlinear Video Editing (2 + 2)

This course introduces the fundamental principles, aesthetics, and procedures necessary to perform nonlinear videotape editing. Students will learn how to perform video edits, the importance of aesthetics in editing, and how to translate editing theory to practical applications.

COM 2420-3 **Basic Single Camera Video Production (3 + 0)**

Pre/Corequisite: COM 2400 or permission of instructor

This course will introduce students to the basics of audio and video techniques and standards for producing on-location, single-camera programs. Students will undertake a series of exer-

cises that teach production methods and they will edit a final project.

COM 2430-3 Introduction to Technical Media (3 + 0)

This course serves as an introduction to media used for industrial applications. Basic techniques, terminology, equipment characteristics, media selection, advantages, and disadvantages are studied.

COM 2450-3 Basic Multimedia Production (3 + 0)

Prerequisite:

CMS 1010 or CSS 1010 or permission of instructor.

This course introduces the basic techniques of designing and producing an interactive multimedia project. Topics include: working with text, graphics, animation, video, audio and interactivity. The emphasis is on the design and communication of information in an interactive media environment. The student will produce a multimedia project.

COM 2460-3 Media Graphics Production (3 + 0)

The student will produce numerous computer graphics, both raster and vector, which can be used in electronic presentations, interactive programs, websites, videos, and printed publications. Basic graphic degisn principles including color theory, typography, visual hierarchy, etc. will be examined. Emphasis will be placed on optimizing file sizes and image repurposing techniques.

COM 2470-3 Basic DVD Authoring (3 + 0)

This course is designed to introduce students to the tools and techniques necessary to produce a DVD (Digital Versatile Disc) application. Students will learn to design an interactive application and work with media assets such as graphics, audio and video and produce a DVD disc according to DVD specifications.

COM 2480-3 Introdution to Computer Animation (3 + 0)

This course introduces students to traditional animation techniques and the planning and production of computer animation. The course focuses on techniques used to create 2D objects and animate them in order to communicate a professional message. Students will create numerous computer animations to be viewed on the Internet.

COM 2610-3 Prerequisite:

Introduction to Technical Writing (3 + 0)

ENG 1010 or permission of instructor

This course offers instruction and practice in the specific techniques required for writing in the areas of technology and science. Particular emphasis is placed on report contents and formats for government, science and industry, and the various audiences requiring technical information. The course incorporates the handling of statistical and other computational elements, as well as graphic components.

COM 2720-3 Introduction to Communication Concepts and Systems (3 + 0)

This course introduces the students to the major communication concepts and systems used by industry, government, science, engineering, and the media in transmitting and receiving information. It prepares the student to identify strengths and weaknesses in the communication process.

COM 2800-3 Introduction to Audio Production (3 + 0)

Audio is an integral part of media projects and this course gives students a strong foundation in digital audio technology. Topics include: Physics of Sound; Human Hearing and Perception; Critical Music Education; Voice recording; and Audio Production Equipment.

COM 3310-3 International Technical Communications (3 + 0)

Prerequisite: at least junior st

at least junior standing or permission of instructor

This course introduces students to the requirements of international technical communications. It defines the characteristics of an international requirements of technical communicator and provides students with opportunities to practice necessary skills.

COM 3330-3 Technical Writing for Translation (3 + 0)

Prerequisite:

COM 2610 or permission of instructor.

This course prepares technical writers, editors, and scriptwriters to develop text and scripts in a manner that facilitates translation for international use.

COM 3400-3 Intermediate Nonlinear Video Editing (3 + 0)

Prerequisite:

COM 2420 or permission of instructor

This course focuses on techniques, principles and aesthetics that are necessary for proper editing of video programs. Students will learn the benefits of working with nonlinear video editing systems and will edit exercises which incorporate a variety of techniques and reinforce specific editing skills.

COM 3420-3 Intermediate Single Camera Video Production (3 + 0)

Prerequisite: COM 2400, COM 2420 or permission of instructor

This course teaches intermediate single camera video production terms and techniques. Students will perform video exercises. In addition, students write, produce, and direct a single camera video program that has a specific purpose and audience. Students will also plan and schedule a remote production, and subsequently edit a finished videotape program.

COM 3440-3 Scriptwriting for Video (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

This course stresses the principles of nonbroadcast video and narrowcast programs, in addition to the organization and writing of story outlines, treatments, formats and scripts. It provides training in the fundamentals of visual and audio applications and includes viewing and

analysis of video productions.

COM 3450-3 Intermediate Multimedia/Web Production (3 + 0)

COM 2450 or permission of instructor Prerequisite:

This course identifies and develops the skills that are required to produce Web-based multimedia projects. The students will design the information and work with the graphic, audio, animation and video elements necessary to produce a multimedia program that has a specific

corporate/educational purpose and audience.

COM 3470-3 Writing for Interactive Media (3 + 0)

ENG 1010 or permission of instructor Prerequisite:

This course covers the techniques of writing for interactive media, which includes the Web, multimedia and DVD. The student will create content outlines, storyboards, flowcharts and a

variety of preproduction documents.

COM 3480-3 Interactive 3D Production (3 + 0)

Prerequisite: COM 2610 or permission of instructor

The student will learn 3D modeling, animation and rendering techniques. In addition, the student will learn how to light models, how to set up virtual cameras and waypoints, and how

to incorporate the models into other environments.

COM 3510-3 **Corporate Communications (3 + 0)**

COM 2720, equivalent work experience, or permission of instructor Prerequisites:

This course focuses on the study of corporate communications, stressing information flow within corporations. Emphasis is placed on the structure and function of corporate messages of a technical nature in business and government. Practice in solving typical communication

problems is included.

COM 3520-3 Communication of Power and Authority (3 + 0)

sophomore standing or three years full-time employment, or permission of instructor Prerequisite:

This course emphasizes the ways decisions are presented and how the image of power and authority are transmitted by a variety of verbal and nonverbal techniques. The student learns to use, recognize, and interpret oral and written power language, signs, symbols, and gestures.

COM 3530-3 Corporate Cultures (3 + 0)

Prerequisites: COM 2720, equivalent work experience or permission of instructor

This course covers the communication patterns and networks that occur in corporations and determines the cultures and climates of those organizations. Students learn to read and interpret the hidden messages within a corporation's communication and to evaluate a corpora-

tion's culture in relation to their own personalities.

COM 3560-3 Variable Topics in Corporate Communications (3 + 0)

Prerequisite: COM 2720 or permission of instructor

This course focuses on topics of current interest to technical communicators and other persons concerned with communication activities in corporations and government agencies. The content of the course changes from semester to semester to reflect current concerns in

the discipline. This course may be repeated for credit under different titles.

COM 3570-3 Technology Based Training (3 + 0)

Prerequisite:

This course focuses on need, design, development, and implementation of multimedia-based training programs. Students learn and conduct needs assessment analysis, audience analysis, and technology analysis using corporate scenarios. Students then design and produce programs using the Web, computer-based training, and other electronic environments. Students

also learn to critique and evaluate technology-based training programs

COM 3615-3 Technical Writing for Surveyors and Engineers (3 + 0)

This coure provides engineering and surveying/mapping students the writing experiences to prepare technical specifications. The course focuses on contract types, contract elements, technical specifications for procurement, description of procedure, incident reports, technical literature reviews, professional memos, electronic correspondance, document specifications, progress reports, formal technical reports, and other enineering and surveying/mapping functions. The course provides an overview of the legal and technical aspects of writing professional specifications.

COM 3620-3 Technical Editing (3 + 0)

Prerequisite: COM 2610 or permission of instructor

This course presents techniques for editing technical publications including all levels of edit, document management and collaboration with writers.

COM 3625-3 Usability Testing (3 + 0)

Prerequisite:

COM 2610

This course is designed to provide students with the knowledge and practical experience of usability testing. Students will learn the usability issues and the strategies for planning and conducting a test, with or without a lab. Students will conduct usability tests on Web sites, instruction manuals, and other media. Once the basics are established, the course will focus on working in a team to plan, prepare, and conduct a usability test, then analyzing and presenting the results in a written report.

COM 3630-3 Designing Technical Publications (3 + 0)

Prerequisite:

COM 2610 or permission of instructor

This course emphasizes the need for design excellence to enhance the usability of publications that present technical information. It focuses on the use of typography, formats, graphics, papers and inks, binding, as well as collaborative efforts in technical publication production.

COM 3640-3 Writing Computer-User Software Documentation (3 + 0)

Prerequisite:

COM 2610 or CMS 2010 or CSS 1010

This course prepares the student to write instruction manuals for computer software for users who are not computer experts. The course emphasizes audience analysis, vocabulary, format and style, use of graphics, writing techniques, and production.

COM 3650-3 Writing Hardware Documentation (3 + 0)

Prerequisite:

COM 2610 or permission of instructor

This course prepares the student to write instructional manuals including maintenance, operations, and service manuals. The course emphasizes audience analysis, vocabulary, format and style, use of graphics, writing techniques, and productions.

COM 3660-3 Variable Topics in Industrial and Technical Communications (3 + 0)

Prerequisite:

COM 2610 or permission of instructor

This is a current topics course that studies communication models and techniques for reporting industrial and governmental information to specialized and general audiences to advance corporate or agency goals and interests. The content of the course will change from semester to semester. It may be repeated for credit.

COM 3670-3 Writing for the Environmental Industry (3 + 0)

Prerequisite:

COM 2610 or permission of instructor

This course presents communication models and techniques for reporting industrial and governmental information related to the environment for specialized and general audiences.

COM 3680-3 Internet Document Design for Technical Communicators (3 + 0)

Prerequisites:

CMS 1080, equivalent work experience or permission of instructor

This course prepares students to plan, research, write, revise and distribute documents using electronic media. The course emphasizes the use of the World Wide Web and other elements of the Internet as a means of making documents available to specified audiences.

COM 3780-3 Communication Law (3 + 0)

Pre/Corequisite:

six hours of COM, JRN or business courses or permission of instructor

This course presents U.S. legal practices that impact professional communicators. It places special emphasis on the federal and state court systems, defamation, intellectual property, privacy, and federal trade regulations as applied to a variety of media.

COM 4380-3 Law of Cyberscpace - Communications (3 + 0)

Prerequisites: COM 3780

This course emphasizes U.S. and international law relating to the Internet, WEB, and satellite transmissions relevant to Technical Communications. The course focuses on such areas as intellectual property, privacy of information, fraud, security, adult materials, and penalties.

COM 4401-3 Advanced Nonlinear Video Editing (3 + 0)

COM 2400, COM 3400 or permission of instructor Prerequisites:

This course will focus on the techniques necessary to achieve properly edited informational programs. Acquisition, manipulation, compression and digitization of video and audio footage for nonlinear systems will be discussed and demonstrated. Students will learn advanced editing techniques. Students will also learn when to employ specialized transition devices and

how to transform video clips.

COM 4410-3 Budgeting and Planning for Media Productions (3 + 0)

senior standing or 12 hours COM designated courses (nine of which must be upper-division), Prerequisites:

and satisfaction of all Level I and Level II General Studies course requirements

This course stresses the methods and techniques for budgeting and planning. Viewing and analysis of programs also occurs. Scheduling in terms of time, equipment, materials and cost is covered. Evaluation techniques and ethical situations are studied. (Senior Experience)

COM 4420-3 Advanced Single Camera Video Production (3 + 0)

COM 2420 and COM 3420, or permission of instructor Prerequisites:

This course covers advanced video production techniques including editing, lighting, graphics, scripting, and audio recording. Students will formulate and track budgets, plan and execute remote shoots, and carry out all aspects of single camera video production. Students will

obtain outside clients for the final videotape project.

COM 4430-3 Directing and Lighting for Nonbroadcast Video (3 + 0)

COM 2420 and COM 3420 or permission of instructor Prerequisites:

This course presents various directing and lighting techniques used in the production of nonbroadcast video programs. Students will learn the theories and principles used to direct and

light for single camera, remote productions.

Advanced Multimedia/DVD Production (3 + 0) COM 4450-3

Prerequisite: COM 3450 or COM 2470

This course identifies and develops the skills that are required to manage and produce multimedia and DVD projects. The course covers project development and evaluation, budgets,

production elements, technology trends and project management.

COM 4480-3 Motion Graphics for Video (3 + 0)

at least junior standing or 9 hours COM designated courses, and COM 3400; or permission of Prerequisites:

instructor.

This course emphasizes creating professional animations for use in broadcast, DVD, and corporate video applications. Students will identify the technical issues surrounding the creation and animation of motion graphics for video. Students will incorporate appropriate visual effects, imported graphics and video footage into their video animation. Students in this course will

also create a video portfolio.

COM 4760-1-12 Advanced Internship in Technical Communications (0 + 3-36)

Prerequisites: 12 semester hours of COM designated courses and the recommendations of two technical

communications faculty members

This advanced, on-the-job learning experience in a technical communications emphasis enables students to work in their chosen career fields. An approved plan from a cooperating organization serves as the course outline for a specific internship, but the outline must fulfill the general requirements of the course. The student must merit the internship experience and provide an acceptable plan of work before being granted permission to register for this course.

COM 4790-3 Senior Seminar in Technical Communications (3+0)

senior standing and 12 or more hours of COM or AES designated courses, or permission of Prerequisites: instructor, satisfaction of all Level I and Level II General Studies course requirements

This course gives the advanced student an opportunity to write a paper of publishable quality and present a seminar based on in-depth research or an application of state-of-the-art practices in an area of technical writing and editing, organizational, or technical media emphases.

(Senior Experience)

COMPUTER SCIENCE

Computer Science courses use the CS and CSS prefixes and are taught through the Department of Mathematical and Computer Sciences..

CS 1050-4 Prerequisite:

Computer Science 1 (4+0)

permission of department

This is the first course in the computer science core sequence. Students will learn a modern programming language and the basic skills needed to analyze problems and construct programs for their solutions. The emphasis of the course is on the techniques of algorithm development, correctness and programming style. Students are also introduced to the fundamentals of software engineering and the software development life cycle.

CS 2050-4 Prerequisite: Computer Science 2(4+0)

CS 1050 with a grade of "C" or better, or permission of instructor

This course, a continuation of CS 1050, further emphasizes the concepts of the software development cycle and introduces the concept of an abstract data type (ADT). The topics covered include linked-lists, trees, stacks, queues, classes, recursion, and a variety of data representation methods. Further topics in software engineering and programming style as well as algorithms for sorting and searching are included.

CS 2400-4

Computer Organization and Assembly Language (4+0)

Prerequisite:

CS 1050 and EET 2310 with grades of "C" or better, or permission of instructor

This course is a study of the internal organization of computers. Machine level representation of data, digital logic, central processor and memory organization, instruction level architecture, secondary memory organization, interfacing and communication, multiprocessing organization are covered. The vehicle for exploration of the computer hardware is assembly language programming.

Computer Science (4 + 0) CS 3050-4

Prerequisites:

CS 2050 with grade of "C" or better, and permission of the Department of Mathematical and

Computer Sciences

This course, a continuation of CS 2050, includes graphs, digraphs, balanced binary search trees, red-black trees, B-trees, B*-trees, B+-trees, and hashing. Students will write a variety of programs and some of these will include event-driven programming and graphical user interfaces. Two programming languages will be used in this course.

CS 3140-4

Human-Computer Interaction (4+0)

Prerequisite:

CS 2050 with grade of "C" or better, or permission of instructor

This course explores and develops knowledge that enables computer scientists to improve human-computer inteaction through the exploitation of cognitive science theories about how people interact with their environments. Topics include: how people interact with each other and with computers; insights provided by models of cognition, memory, perception, attention, and thought; defining, specifying and assessing usability; and the roles of computer interface elements and behaviors. Students will examine theories and use interactive computer systems as the vehicles for the study of human-computer interaction and design for usability. Students will evaluate the effectiveness of existing interfaces and will experiment with authoring their own.

CS 3210-4

Prerequisites:

Principles of Programming Languages (4 + 0)
CS 3050 with a grade of "C" or better, or permission of instructor

This course traces the evolution of programming languages and identifies and analyzes the contributions made by several significant languages and their successors. Specific issues of programming language implementation such as creation of activation records for blockstructured languages and static and dynamic scoping as methods for defining program object visibility are studied in depth. All four of the modern programming language paradigms

(procedural, functional, object-oriented, and logical) will be studied.

CS 3240-2

Introduction to the Theory of Computation (2 + 0)

Prerequisites:

CS 3050 and MTH 3100 with grades of "C" or better, or permission of instructor This course explores language theory and computability. Language theory includes: regular

expressions, regular languages, and finite automata (deterministic and non-deterministic); context-free languages and pushdown automata; and language grammars. Computability includes: Tuning machines and their computing power; unsolvable problems; and intractable

problems (NP-Completeness).

CS 3280-4 **Object-Oriented Software Development (4 + 0)**

CS 2050 with a grade of "C" or better, or permission of instructor Prerequisite:

This is an upper-division software development class that focuses on the object-oriented programming paradigm. Object-oriented analysis, design, and development will be explored in some depth with emphasis on object definition, abstraction, polymorphism, encapsulation, and inheritance. Abstract class definitions are developed for a number of common objects and data structures, and derivative classes and subclasses are developed from these definitions. Students will develop a thorough understanding of an object-oriented programming language such as C++ or Smalltalk.

CS 3400-4 Computer Architecture (4+0)

CS 2050 and CS 2400 with grades of "C" or better, or permission of instructor Prerequisites:

Computer architecture concepts are extended to include advanced architectural concepts based on the quantitative analysis and evaluation of modern computing systems. These include advanced instruction set architecture designs, multilevel and set associative caches, advanced pipelining, out-of-order processors including superscalar and VLIW techniques, microprogramming concepts, multiprocessing architectures, advanced memory organiza-

tions, input/output, and network-oriented interconnections.

Computer Graphics (4+0) CS 3510-4

CS 2050 with a grade of "C" or better, MTH 1410, and either MTH 2140 or MTH 3140, or Prerequisites:

permission of instructor

This course is a survey of graphics hardware and software. The topics covered include raster scan displays, windowing transformation, algorithms for vector generators, clipping, area fill, space transformations in two and three dimensions, perspective viewing methods, and graphical input. Other topics will be chosen from hidden surface processing, curve and surface modeling, fractals and animation. Programming projects will be done using a standard graphics function library. This is a course in the principles of computer graphics; it is not a course in using existing commercial software for artistic design or drafting. Students wanting design or drafting courses should consult offerings of the Art Department.

CS 3600-4 Operating Systems (4+0)

C\$ 2400 and CS 3050 with grades of "C" or better, or permission of instructor Prerequisites:

This course is an introduction to the design, development, and implementation of modern computer operating systems. The topics covered include input/output processing, interrupt handling, system resource management, multitasking, communication between processes, file system implementation, process and thread control, and virtual memory management.

CS 3700-4 Computer Networks (4+0)

CS 2050 and CS 2400 with grades of "C" or better, or permission of instructor Prerequisites:

This course provides a comprehensive study of computer networks, from the physical aspects to the high-level application protocols with which most people interact. The software that provides the communication is emphasized. The methods for creating connections, making sure they are error free and in order, performing routing, and creating client/server interac-

tions are discussed.

CS 3750-3

Computer and Network Security (4 + 0)
CS 3600 and CS 3700 with grade of "C" or better or permission of instructor Prerequisites:

This course will cover how computers are compromised, what one needs to do to build security into every program, how cryptography assists in securing data, how operating systems affect computer security, how networks are secured, and the social and ethical aspects of

computer security.

CS 3800-2

Fundamentals of Relational Database Systems (2 + 0) CS 2050 and MTH 3100 with grades of "C" or better, or permission of instructor Prerequisites:

This is a course in relational database theory. Topics covered include entity-relationship schema, relational algebra, SQL queries, normalization, decompositions of a relational

schema that are dependency-preserving and/or lossless.

CS 4050-4 Algorithms and Algorithm Analysis (4+0)

CS 3210, CS 3240, MTH 3210 with grades of "C" or better, or permission of instructor Prerequisites:

The emphasis of this course is on the design, analysis, and evaluation of efficient algorithms

for a wide variety of computing problems.

CS 4120-4 Foundations of Artificial Intelligence (4 + 0)

Prerequisite: CS 3210 with a grade of "C" or better, or permission of instructor

This course includes a study of the theoretical foundations of artificial intelligence, including the algorithms and techniques and programming languages used to design and implement intelligent systems. The topics covered include search strategies, resolution theorem proving, rule-based deduction, expert systems architecture, plan-generating systems, analysis of languages, and machine learning. LISP and PROLOG, the most commonly used AI programming languages, will be covered and used for programming assignments.

CS 4250-4 Software Engineering Principles (4 + 0)

Prerequisites: CS 3050 with a grade of "C" or better, COM 2610, PHI 3370, and senior standing, or permission of instructor

sion of instructor

This course focuses on the software development life cycle. Special emphasis is placed on the earlier phases in the life cycle that precede the actual writing of the code, and the later phases in which the software is tested and evaluated after it is written. Finally, the post-implementation phases that represent the eighty percent of the life cycle during which the software is evolving as it is in use are studied in depth. Students will perform various role-playing activities in which they represent users and implementors during these phases of the development process.

CS 4260-4 Software Engineering Practices (4 + 0)

Prerequisites: CS 4250 with a grade of "C" or better

This course is a continuation of CS 4250, Software Engineering Principles. Students will work in teams of 4 to 6 and apply the principles to the development of a real-world project. Projects will be solicited from industry and progress will be evaluated in conjunction with industry representatives. (Senior Experience)

CS 4281-3 Software Requirements (3 + 0)

Prerequisite: CS 4250 or permission of department

This course develops basic competency in software requirements engineering and management. Students gain knowledge and practical experience with the fundamentals of requirements elicitation, explication, validation, management, and assessment.

CS 4282-3 Software Development Management (3 + 0)

Prerequisite: CS 4250 or permission of department

This course provides students with exposure to a broad set of principles and practices affecting the success and failure of software development efforts and productivity of teams involved in such efforts. The role and tasks of the software development manager are explored in detail. Note that this course is specific to software development and is not a general management course (see MGT courses).

CS 4283-3 Software Testing and Quality Assurance (3 + 0)

Prerequisite: CS 4250 or permission of department

This course exposes the student to the key concepts and practices in software testing and quality assurance. Topics covered include aspects of software quality assurance relevant to all phases of the software life cycle, alternative approaches to software testing, application of current automated tools, standards, and emerging trends.

CS 4284-3 Software Product Engineering (3 + 0)

Prerequisite: CS 4250 or permission of department

This course surveys fundamental topics necessary for successful software product engineering, including usability engineering, software configuration management (SCM), and an overview of legal issues for software engineers.

CS 4285-3 Best Practices in Software Development (3 + 0)

Prerequisites: CS 4260 or two of: CS 4281, CS 4282, CS 4283, CS 4284; or permission of department

This course exposes the student to current best practices and emerging methodologies in software engineering and software product development. Topics are chosen to reflect the current state of the care and practice. (A typical set of such topics includes: software architecture as a discipline, design patterns, eXtreme Programming, recent technology in security, and aspect-oriented programming.)

CS 4520-1-4 Advanced Computing: Variable Topics (1-4 + 0)

Prerequisite: permission of instructor

This course will include further topics in computer science and its applications. Topics will be chosen from analysis of algorithms, compiler design, simulation, artificial intelligence, or other chosen by the instructor. This course may be repeated for credit under different titles.

COMPUTER SCIENCE STUDIES

Computer Science courses use the CS and CSS prefixes and are taught through the Department of Mathematical and Computer Sciences.

CSS 1010-3 Introduction to Computers (3 + 0) (CIS 1010)

This course is designed for students who wish to use a microcomputer in their academic pursuits and their career. The student will learn how to use a personal computer with application software featuring word processing, spreadsheets, file management, graphics, electronic communications, and thesaurus/spelling checker. This course also reviews the historical, societal, ethical, and technological aspects of computers. Credit will be granted for only one prefix: CSS or CIS.

CSS 1027-2 BASIC Programming (2 + 0)

Prerequisite: one year of high school algebra or permission of instructor

This is an introductory computer programming course in which the major elements of the BASIC language are taught. Students will write computer programs to solve problems selected from mathematics and other sciences.

CSS 1080-3 The World Wide Web, the Internet and Beyond (3 + 0) (CIS 1080)

This course is for anyone who uses or wants to access the World Wide Web or use the Internet. Students will master a set of basic skills including using electronic mail, logging in to remote computers, obtaining online documents and software, and using a browser like Netscape to search and explore the World Wide Web for information. Students will also learn the fundamentals of Web page construction. Credit will be granted for only one prefix: CSS or CIS.

CSS 1201-3 Understanding Programming (2 + 2)

Prerequisites: CSS 1010, or equivalent knowledge, and satisfaction of the General Studies Level I Mathemat-

ics requirement or permission of instructor

This is an introductory course where students learn the basic concepts of computer programming, including the main constructs of object-oriented programming, problem solving and design. A supportive programming language is used that provides a smooth transition to using the Java programming language.

CSS 1247-4 Introduction to Programming: Visual Basic (4 + 0)

Prerequisites: CSS 1010 or equivalent knowledge and satisfaction of the General Studies Level I Mathemat-

ics requirement or permission of instructor

This is an introductory computer programming course in which the major elements of Visual Basic are taught. Visual Basic is one of *Microsoft's* versions of Basic and was created to specialize in easy graphical user interface development. It is an object-based programming language with many characteristics of object oriented programming languages. Students will write programs to solve problems selected from a variety of applications.

CSS 2227-3 The C Programming Language (3 + 0)

Prerequisites: CSS 1247 or CS 1050 or MTH 1510 or previous knowledge of a programming language, and

MTH 1110 or permission of instructor

The course presents a study of the C programming language and its applications in computing with emphasis on the design and development of efficient algorithms. C is one of the currently more popular programming languages because it is particularly well suited to the development of systems software.

CSS 2257-4 The C++ Programming Language (4 + 0)

Prerequisites: CSS 1247 or CS 1050 or MTH 1510 or previous knowledge of a programming language, and

MTH 1110 or permission of instructor

This course presents a study of the C++ programming language and its applications in computing with emphasis on the design and development of efficient algorithms and object-oriented programming.

CSS 2267-4 The Java Programming Language (4 + 0)

Prerequisites: CSS 1201 or CSS 1247 or previous knowledge of a programming language, and satisfaction of General Studies Level I Mathematics requirement or permission of instructor

This course presents a study of the Java programming language and its applications in computing for experienced programmers. Students will write Java application programs and Java applets. In addition, students will write programs that are event driven and have graphical user interfaces.

CSS 2425-2 Introduction to UNIX (2 + 0)

Prerequisite:

CSS 1201 or CSS 1247 or CS 1050 or previous knowledge of a programming language This course presents fundamental UNIX concepts, including file system organization, standard commands for file manipulation, utility programs, filters, editors, basic shell programming, and remote access using telnet and file transfer commands such as ftp. The course

emphasizes skill acquisition to perform common operations on UNIX systems.

UNIX Programming (3 + 0) CSS 3227-3

Prerequisite:

CSS 2425 and knowledge of a programming language, or permission of instructor This course presents a study of UNIX programming using the C programming language. Students will write C programs that interact with the UNIX filesystem, create processes and

threads, utilize UNIX signals, and use interprocess communication.

CSS 3607-4

Advanced Web Programming: Java and Perl (4 + 0) CS 1050 or CSS 1247 or CSS 2267 or permission of instructor Prerequisite:

This course presents programming for the World Wide Web. Topics include server-side CGI programming using Perl as well as programming in the Java programming language. The course will introduce stand-alone Java applications, threads, Java applets that can be included in Web documents, building user interfaces using the Java AWT library and computer animation using Java. Students will develop Web pages that include forms processed by a CGI program written in Perl, write Java programs and create Web pages that include Java applets.

CSS 3707-4 Advanced Multimedia Programming (4 + 0)

Prerequisite: CS 1050 or CSS 1247 or permission of instructor

> This is an advanced course in multimedia programming. The full power of a contemporary multimedia authoring language is explored. Topics include data structures, manipulating text strings and full text editing, advanced control structures and subroutines, file input/output, advanced animation techniques, dynamic data exchange (DDE), object linking and embedding (OLE) and the use of dynamic link libraries (DLL's) as well as methods for handling such multimedia elements as sound, video and animation.

CSS 4727-3 Network Programming (3 + 0)

Prerequisite:

knowledge of TCP/IP networking and the Java programming language, or permission of instructor The TCP/IP protocol provides the dominant form of client/server communications. This course enables the student to write both client and server applications for use on the Internet. Topics include methods for connecting physically disparate programs, using protocols between a client and server, and creating long-running servers.

EARLY CHILDHOOD EDUCATION

ECE 2340-3 Foundations of Early Childhood Education (3 + 0)

Corequisite:

This course introduces the historical and philosophical foundations of early childhood education as well as current social, educational, multicultural, and law related issues and trends. Emphasis will be on the knowledge, attitudes, and decision-making skills essential for continued academic work in a standards-based curriculum and corequisite field experience course, ECE 2350, in urban, multicultural, early childhood settings serving children from birth

through age eight. (Multicultural)

ECE 2350-1

Corequisite:

Foundations of Early Childhood Education: Field Experience (0 + 4)

This laboratory experience provides 60 hours of guided observation and participation in the Metropolitan State College of Denver's Child Development Center, ensuring practical application of the instruction received in the companion course, ECE 2340. The emphases are on observation skills; interactions with children of preschool ages from diverse ethnic, cultural, and economic backgrounds; and implementation of developmentally appropriate activities. An exploration will be made of what makes a good teacher and how one creates a community of learners in a well managed program.

Developmentally Appropriate Practice I: Planning and Management with Literacy ECE 3150-3

Emphasis (3+0)

PSY 1800, RDG 3110 Prerequisites: ECE 3160, RDG 3120 Corequisites:

Students will learn to make effective developmentally appropriate decisions regarding standards and objectives, instructional planning, methodology, assessment, and classroom management. They will analyze characteristics of development of 6-8 year olds as they relate to literacy. This course also focuses on parents as partners in the education of their children and emphasizes planning and activities that encourage parent involvement. Students must take ECE 3160 concurrently, a 45-hour field experience completed in a primary grade in a public school. Theory, research, and content in ECE 3150 are directly and substantially related to

observations and participation in ECE 3160.

ECE 3160-1 Developmentally Appropriate Practice I: Field Experience (0 + 3)

Prerequisites: Corequisites:

PSY 1800, RDG 3110 ECE 3150, RDG 3120

This 45-hour field experience is taken in conjunction with ECE 3150 and RDG 3120. The student will spend three hours per week practicing decision-making, planning instructional techniques, and assessing skills in an urban multicultural public school classroom. They will also be planning developmentally appropriate standards-based literacy lessons. Each teacher candidate will develop a partnership with a parent to promote student development and achievement.

ECE 3330-3 Social Studies and Expressive Arts for the Young Child (3 + 0)

Prerequisite: PSY 1800

This course requires teacher candidates to document, analyze, design, implement, and evaluate developmentally appropriate social studies and expressive arts curriculum and learning environments. Emphasis is on ways to make decisions in a democratic society as well as to maintain a classroom atmosphere and environment that allows creative expression and encourages and supports creativity in art, music, and movement.

Administration of Early Childhood Programs (4 + 0) ECE 3340-4

Prerequisites: ECE 2340, 2350, PSY 1800 or equivalent

Provides an overall view of program administration and specific concepts applicable in a variety of early childhood settings: preschools, child care, infant/toddler care, and after-school programs. Examines personnel management, program development, fiscal administration, marketing, and fund-raising.

ECE 3350-3 Documentation, Assessment, and Decision-Making for Early Childhood (2 + 2)

Prerequisite:

This course emphasizes the basic foundations for documentation, assessment, and decisionmaking to facilitate children's growth and emerging, standards-based curriculum for children from birth to age eight. Informal and observational methods of assessment will be stressed, along with portfolio development, more traditional teacher-made tests, and standardized tests. Candidates will observe and assess infants and toddlers, preschoolers, and primary age children for the purpose of planning developmentally appropriate instructional strategies for a total of 30 hours in supervised field-based settings. Various forms of technology will be used to document children's work.

ECE 3750-3 Enhancing English Language Learning in Early Childhood Education (3 + 0)

This course in English language learning is designed to acquaint the early childhood teacher candidate with background knowledge and methods of effective instruction for English language learners. Through this course teacher candidates will gain a practical and theoretical knowledge base which will enable them to work effectively with children from birth to age eight by applying knowledge of English language learners into play integration, language acquisition, and integration of subject matter in a developmentally appropriate way. Assessment and parent involvement will be emphasized.

ECE 4330-3 Science, Health, and Mathematics for the Young Child (3 + 0)

Prerequisites: PSY 1800 and completion of General Studies Level I Mathematics and Level II Natural Science

This course emphasizes the practical application of methods used by teachers of young children to build appropriate knowledge and conceptual foundations for science, health, and mathematics. Students will make decisions regarding planning, implementing, and evaluating lessons and activities appropriate for children through the third grade by utilizing the Colorado model content standards.

ECE 4360-3 Cultural Influence on the Socialization of Children (3 + 0)

This course examines the socialization of children using a multi-disciplinary approach, e.g., anthropology, psychology, sociology, biology, and education. Emphasis is on the study of human attachment, modeling and social learning theory. From this base the student analyzes the effect that cultural and socialization patterns have on the family and the individual's development. (General Studies–Level II, Social Sciences)

ECE 4370-3 Developmentally Appropriate Practice II: The Integrated Curriculum and Technology

(3+0)

Prerequisites: Corequisite:

ECE 2340, ECE 2350, ECE 3150, ECE 3160, RDG 3120

ECE 4380

Students learn how to organize, schedule, sequence, and integrate available resources and technology in order to implement developmentally-appropriate early childhood programs responsive to children's diverse needs and state and national standards. Content areas include planning, classroom organization and management, curriculum, technology, securing and implementing resources to achieve child and program outcomes, and practices of effective developmentally appropriate teaching techniques. This course is accompanied by ECE 4380,

which provides the field-based setting for the performance tasks.

ECE 4380-1 Developmentally Appropriate Practice II: Field Experience (0 + 4)

Prerequisites: Corequisites:

ECE 2340, ECE 2350, ECE 3150, ECE 3160, RDG 3120

ECE 4370

This field experience provides 60 hours of guided participation and teaching in a preprimary school or center to prepare students to be responsible for an entire class. Students will develop competencies in classroom planning, organization and management to achieve specific content and process goals in an early childhood education setting. A weekly pre-and post conference is held to reflect or adjust practice or approaches. (Senior Experience)

ECE 4390-6,12 Student Teaching and Seminar: Early Childhood (Preschool through Third Grade) (1 + 21.4 + 42.7)

Prerequisites:

completion of all requirements of the major, Early Childhood Licensure Program and General Studies. Initial sign-off on the program requirements (e.g., teacher work sample/portfolio) by the education advisor is required.

This course requires student teaching assignments in an accredited public or private school as follows: one assignment in either Pre-K or K grade levels for 8 weeks and one assignment in either first, second, or third grade levels for 8 weeks for a total of 16 weeks. Both student teaching experiences require increasing responsibility for the teaching, supervision, and direction of a group of learners. Teacher candidates are required to complete a teacher work sample documenting impact on student learning and attend 15 hours of seminars. College supervisors provide regularly scheduled observations, seminars, and conferences which support work sample development and standards-based proficiency. Upon completion of this course, teacher candidates must be minimally rated as "proficient" in all performance-based standards for Colorado teachers to receive MSCD recommendation for licensure. (Senior Experience)

ECONOMICS

ECO 1040-3

A Citizen's Guide to Economics (3 + 0)

Prerequisites:

minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests

This course introduces students to basic economic concepts and reasoning, the legal foundations of a market-based economic system, the fundamentals of the macroeconomy, and the foundations of the global economy. Students will be exposed to measurements of a nation's macroeconomy, money and banking, the role of government in the economy, the importance of the international economy, and myths about markets. A key feature of the course is the application of economic reasoning to real world problems. (General Studies—Level II, Social Sciences)(GT-SS1)

ECO 2010-3

Principles of Economics—Macro (3 + 0)

Prerequisites:

either ENG 1010 or the Level I Communications course, and satisfaction of the Level I Mathematics requirement

An introduction to the principles of economics emphasizing the economy as a whole. Topics include: methods used in economics; gains from exchange and international trade, supply and demand—market outcomes and the impact of government interventions; measurement and determinants of macroeconomic performance—the national income and product, inflation, unemployment, and international balance of payments; business cycles (economic fluctuations) and economic growth; demand side and supply side fiscal policy; banking, central banking, and monetary policy; preliminary international financial markets and open economy macro policy. (General Studies—Level II, Social Sciences)(GT-SS1)

ECO 2020-3 Principles of Economics—Micro (3 + 0)

Prerequisites: either ENG 1010 or the Level I Communications course, and satisfaction of the Level I Math-

ematics requirement

An introduction to the principles of economics with an emphasis on individual economic units. Topics include: supply and demand—market outcomes and the impact of government interventions; consumer choice; production theory and economic costs, the theory of the firm; competition and monopoly; resource markets and factor prices; and the role of government in a market economy—the legal framework and property rights, economic efficiency and competition policy, externalities and environmental protection, provision of public goods, and distribution of income and wealth. (General Studies—Level II, Social Sciences)(GT-SS1)

ECO 3010-3 Intermediate Microeconomic Theory (3 + 0)

Prerequisites: ECO 2020 and either MTH 1320 or MTH 1410

This course analyzes production, price, and distribution theory within a microeconomic framework. Studies include value and distribution theories under conditions of varying market structures. Topics will also include consumer theory; competitive, oligopoly, and monopoly pricing and output behavior as well as pricing of factors of production and welfare theory.

ECO 3020-3 Intermediate Macroeconomic Theory (3 + 0)

Prerequisites: ECO 2010

The course is a survey of major aggregate economic models. Emphasis is on the role of consumption, investment, and government decisions on aggregate economic activity. Topics include an analysis of consumption and investment decisions, income determination models,

monetary and fiscal policy, and economic growth.

ECO 3100-3 Money and Banking (3 + 0)

Prerequisite: ECO 2010

The study of money as a policy variable affecting economic activity. Money is examined both in its role in exchange and as an instrument of economic policy. The Federal Reserve System, money supply, money demand, and their respective effects on macroeconomic

activity are stressed.

ECO 3150-3 Econometrics (3 + 0)

Prerequisites: (ECO 2010 or ECO 2020) and (MTH 1320 or MTH 1410 or CIS 2300) or permission of

instructor

This course applies mathematical techniques to problems in economics. Emphasis is on application rather than computational methods of mathematical rigor. The problems of acquiring,

measuring, and using economic data are examined.

ECO 3200-3 Economic History of the U.S. (3 + 0)

Prerequisites: ECO 2010

This course examines historical trends in American economic organizations and institutions and their development from colonial times to the present. Topics include problems of national and regional industrial development, economic stability, and trends in income distribution.

ECO 3250-3 Labor Economics (3 + 0)

Prerequisite: ECO 2020

The study of the topics related to the supply of labor, the allocation of labor among uses, the extent and incidence of unemployment, and the determination of wages. Concentration is on application of economic theory to understand the behavior of labor and problems of

labor markets.

ECO 3450-3 Environmental Economics (3 + 0)

Prerequisite: ECO 2020 or ECO 1040

An economic analysis of the causes and consequences of environmental degradation and of

public policy measures designed to preserve, protect, and enhance human environments.

ECO 3500-3 Managerial Economics (3 + 0)

Prerequisites: ECO 2020

This course applies economic theory to the decision-making process faced both by private and public enterprise. The major emphasis is to provide the theory and tools essential to the analysis and solution of those problems which have significant economic consequences, both

for the firm and the society at large.

ECO 3550-3 Global Economics and International Trade (3 + 0)

Prerequisites: ECO 2010 or ECO 2020

The course looks at the fundamental economic concepts needed for understanding international economic relationships. Topics addressed include international trade theory, capital movements, international monetary institutions, balance of payments adjustments and the impact of trade policies on economic development and growth.

ECO 4300-3 Public Finance (3 + 0)

Prerequisites:

ECO 2020 This course analyzes the effects of taxation, government expenditures, fiscal policy, and public debt on the resource allocation and income distribution of society. Topics included in the course are taxation, pricing of public services, intergovernmental fiscal relations, and macroeconomic issues in public finance.

ECO 4400-3 Industrial Organization and Public Policy (3 + 0)

Prerequisites:

The course examines the structure, conduct, and performance of American and foreign industries. Questions of public policy in dealing with problems created by industrial concentration including the regulation of public utilities are examined. Industries are measured against the yardstick of the public interest.

ECO 4450-3 International Macroeconomics (3 + 0)

Prerequisites:

ECO 3550 or ECO 3020

The course will use general equilibrium analysis to provide the foundation for international finance, the composition of international transactions, and determination of real national income and its distribution among factors of production. This theoretical framework is then applied to a host of economic problems. The alternative approaches to balance of payments equilibration are then explored in depth.

ECO 4500-3 Business and Economic Forecasting (3 + 0)

Prerequisite:

ECO 2010 and (ECO 3150 or CIS 2300)

The course examines the general approaches to predicting macroeconomic activity and how these techniques are implemented into the management decision process. Topics include data acquisition, quantitative techniques, business cycle theories and macroeconomic forecasting, industry and sales forecasting.

ECO 4600-3 History of Economic Thought (3 + 0)

Prerequisites:

ECO 2010, ECO 2020, senior standing, and satisfaction of all Level I and Level II General

Studies course requirements Survey of the development of economic thought from ancient to modern times. Topics

include the classical school from Smith through Mill; Marxian economics; the marginalists; institutional economics; and Keynesian Macroeconomics. (Senior Experience)

ECO 4650-3 Advanced Macroeconomics (3 + 0)

Prerequisite:

ECO 3020 or ECO 3100

The course analyzes monetary models and money as a policy determinant and its place in national and international economics. Topics include the importance of interest rates, the effectiveness of monetary and fiscal policy, the examination of portfolio balance models, and international models.

ECO 4700-3 Law and Economics (3 + 0)

Prerequisites:

ECO 2020

This course focuses on the interaction between economics and the law. Topics include the effect of economic theory on the development of common law, the economic analysis of property, contract, and tort law, and the effect of legal analysis on economic and political institutions.

ECO 4750-3 The Economic Approach to Politics (3 + 0)

Prerequisite:

ECO 2020

The course will focus on the use of economic theory to analyze political decision making. This rational choice theory approach will examine such topics as voting rules and behavior, legislatures, bureaucracies, courts, interest groups and public policy outcomes.

EDUCATION

Secondary Education Courses

EDS 2680-1 Portfolio Development Workshop (1 + 0)

Students learn to identify, analyze, discuss, and document learning gained through experience. Students integrate prior experiential learning with current educational needs and goals. Basic principles of adult learning and developmental theory are introduced as they apply to the student's experience. Students will prepare a prior-learning portfolio. Those who are interested may develop this portfolio into an application for credit for prior learning.

EDS 3110-3 Processes of Education in Multicultural Urban Secondary Schools (3 + 0)

upper-division standing or permission of instructor and a minimum of four courses com-Prerequisites:

pleted in major

Corequisite: must be taken concurrently with EDS 3120

Course includes an analytical assessment of teaching/learning processes with special emphasis on multicultural urban secondary schools. It addresses issues of human relations and classroom management to meet individual student needs in diverse contexts. Special emphasis will be placed on the role that the teacher as decision-maker must play in urban schools to meet the educational needs of learners from multicultural and diverse backgrounds. The course requires concurrent enrollment in EDS 3120, an 80-hour field experience and seminar in which students apply content and general education methods to instruction in actual

classroom settings. (General Studies-Level II, Social Sciences)

EDS 3120-2 Field Experiences in Multicultural Urban Secondary Schools (1 + 5.33)

upper-division standing or permission of instructor and a minimum of four courses com-Prerequisites:

pleted in major

Corequisite: must be taken concurrently with EDS 3110 except for Special Education licensure students

This course provides the teacher candidate with an opportunity to apply theory to practice to make appropriate decisions in multicultural urban secondary schools. During this 80hour field placement, teacher candidates learn about learners, schools, and their communities. They complete projects, performance tasks, and presentations demonstrating developing proficiency toward Performance Based Standards for Colorado Teachers. Weekly seminars address the decisions teachers make to individualize instruction for students' diverse educational needs. Teacher candidates reflect upon educational issues and professional growth with peers and instructor during a one-hour weekly session.

EDS 3200-3

Educational Psychology Applied to Teaching (3 + 0) Prerequisites: EDS 3110 and EDS 3120 or permission of instructor and satisfactory completion of Level I

General Studies requirements

This course provides an emphasis on making appropriate decisions to meet the developmental needs of diverse children, with special focus on children in middle and high school. The teacher candidate develops professional teaching skills needed to establish an effective classroom group and to integrate participation of other school professionals and parents in meeting student needs. Students apply theory to educational practice as they investigate psychosocial, cognitive, and moral development; student characteristics; assessment; learning theories; student motivation; and classroom management. (General Studies—Level II, Social Sciences)

EDS 3210-3 Standards-Based Curriculum, Assessment, and Classroom Management in the Secondary School (3+0)

EDS 3110, EDS 3120; EDS 3200 Prerequisites:

Pre/Corequisites: RDG 3280 and EDS 3200

Corequisite: EDS 3220 or EDS 3222 for mathematics teacher candidates. Methods course in the content major is recommended

> Teacher candidates convert content, theory and conceptual aspects of academic and professional teacher education into standards-based instruction in simulated classroom assignments, assessments, and classroom management plans. Students plan and micro-teach lessons integrating Colorado's Model Content Standards in their endorsement areas, and they collaborate to develop interdisciplinary lessons that link their own content area standards to model content standards in reading, mathematics, and other areas. Students design a variety of models of instruction and approaches to classroom management to support students' growth toward Performance Based Standards for Colorado Teachers. Students learn to adjust instruction to meet the needs of diverse groups of learners and infuse technology to support learning. The course requires concurrent enrollment in EDS 3220, (EDS 3222 for Mathematics teacher candidates) an 80-hour field experience and seminar in which they apply content and general education methods to instruction in actual classroom settings.

EDS 3220-2 Field Experience in Standards-Based Teaching, Assessment, and Management in the

Secondary School (1 + 5.33)

Prerequisites: EDS 3110 and EDS 3120

RDG 3280 and EDS 3200 and methods in the major Pre/Corequisite:

This course integrates the content, theory, and conceptual aspects of academic and professional teacher education in an 80-hour standards-based field experience in a secondary school. The field experience is arranged collaboratively by education and content methods faculty to provide students opportunities in school settings and content classrooms to demonstrate their developing teaching competency. This course develops students' professional and pedagogical skills and extends their opportunities to implement and assess content specific lessons, as well as integrated lessons that promote secondary student achievement in reading, math, and technology. Students apply the principles of teaching and classroom management to make appropriate decisions for diverse groups of learners and to adjust approaches for secondary students with special needs. A weekly seminar is held to reflect on teaching and resulting student learning and to guide development of a mini teacher work sample, school service, action research, and professional growth.

EDS 4290-6,12 Student Teaching and Seminar: Secondary 7–12 (1 + 40)

Prerequisites:

completion of all requirements of the teaching major and the Secondary Education Program; initial sign-off on program requirements (e.g., teacher work sample/portfolio) by faculty advisor This course is a supervised, full-time, 16-week student teaching experience in an accredited public or private secondary school, providing increasing responsibility for the instruction, assessment, and supervision of an identified group of learners, 7–12 grade levels. Regularly scheduled observations and 15 hours of seminars conducted by an appointed college supervisor are part of the student teaching requirement. Teacher candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSCD recommendation for teacher licensure. (Senior Experience)

Students enrolled for 12 credits spend 16 weeks full-time in a single placement. Only students needing two student teaching placements and seeking K-12 special education, bilingual or second endorsement enroll for EDS 4290 for 6 credits and spend 8 weeks full-time in the EDS 4290

placement.

Youth, Drugs and Gangs (2 + 0) (HSP 4540, CJC 405B) EDS 4540-2

Prerequisites: HSP 2030 and HSP 2040

Child abuse, neglect and substance abuse are underlying issues for gang members. This course explores the reasons youth are attracted to and join gangs and the correlation between

psychoactive substances and violence.

EDUCATIONAL TECHNOLOGY

EDT 2100-2

Fundamentals of Instructional Technologies (1 + 2)

Prerequisite:

Literacy and software application skills equivalent to CMS/CSS 1010 or 1080 (as evidenced by previous coursework in high school or college, work, personal experience, or permission of instructor)

Students enrolled in this course will learn the concepts and terminologies associated with the use of stand-alone computers in learning environments. Participants will be introduced to Macintosh and Windows hardware and software, operating systems, and common configurations and typical integrations in K-12 educational and instructional training venues. In order to facilitate interaction with professional computer technicians and systems administrators, students will gain knowledge in current vocabulary, concepts, and structures. Students will learn to apply critical analysis to situations and scenarios which hamper the implementation of instructional technologies in learning environments. This course will also explore rules, trends, issues, and future developments in the utilization of instructional technologies in

learning environments.

EDT 2200-2 Fundamentals of Networked Learning Environments (1 + 2)

Prerequisite:

EDT 2100 or permission of instructor

Students enrolled in this course will focus on the concepts and terminologies of multi-platform (Macintosh and Windows) networked learning environments for the purpose of instruction in K-12 educational and instructional training settings. Participants will learn networking concepts, terminology, vocabulary, and structures which will enable communication among teaching and technical professionals. Students will learn to apply critical thinking to situations and scenarios which hamper the implementation and utilization of networks in learning environments. Students will be exposed to copyright law and fair use guidelines including the implementation and enforcement of Acceptable Use Policies (AUPs). This course will also explore legal and ethical usage of networks, including accessibility issues with adaptive software.

Introduction to Adaptive Technology (1 + 2-4) EDT 2890-2-3

The class will consist of 15 lecture hours and 30 supervised lab hours. Students registering for Restriction:

the 3-credit class will be expected to complete an additional 30 independent lab hours for a

total of 60 lab hours.

Literacy and software application skills equivalent to CMS/CSS 1010 and 1080 (as evidenced Prerequisite: by previous course work in high school or college, work, personal experience, or permission

This course is designed to give students an overview of currently available adaptations that permit people with various disabilities access to computer technology and how it can be used to support teaching and learning. Participants will have an increased awareness and understanding of the challenges presented by various disabilities, as well as an increased awareness of the range of adaptations available, including screen text enlargers, screen-reading systems, alternative keyboards, typing enhancers, alternative entry methods, voice recognition systems, Braille, and scanning and editing techniques to aid the disabled. Students choosing the 3 credit hour option will complete an additional project requiring a minimum of 30 hours to complete. The project requires consultation with and formal approval from the instructor.

EDT 3010-3 Instructional Delivery for Interactive Learning Environments (1 + 2)) Prerequisites:

Literacy and software application skills equivalent to CMS/CSS 1010 and CMS/CSS 1080 (as evidenced by previous coursework in high school or college, work, personal experience, or permission of instructor)

În this course, students will focus on advanced concepts related to the design of instructional material. Participants will explore a variety of instructional design models that apply to diverse learning environments and human performance tasks. Students will learn and apply fundamental visual design concepts and procedures to enable the design of effective instructional materials. They will also learn and apply procedures and processes for evaluating instructional materials. This course is a mix of theory and practice/development. Participants will also critically examine the role of visual design as it applies to visual media created for instructional purposes. This process will include examining the role of visual design and instructional materials evaluation, developmental considerations and pedagogical considerations, cultural impacts and accessibility.

EDT 3610-2-3 Applications of Educational Technology (1 + 2-4)

literacy and software application skills equivalent to CMS/CSS 1010 and 1080 or as evidencedby previous course work in high school or college or from work or personal experience

concurrent enrollment in any field experience course is highly recommended

This course is designed to prepare teacher candidates to make decisions regarding the role of technology in support of content standards, learning, and assessment in P-12 education. Teacher candidates become proficient in beginning, intermediate or advanced skills, and specialized content area/grade level applications. They select, operate, and use media, computing, Internet, and related technologies to facilitate teaching/learning, communication, professional development, and productivity to meet the educational needs of diverse groups of learners. This course can be taken for 2 credits (minimum required to fulfill elementary and secondary program requirement in technology) or 3 credits (to provide advanced or specialized technology in teaching competencies). All students meet for 15 lecture hours and 15 supervised lab hours. Additional independent lab hours are expected from all students-15 for 2 credits and 45 for 3 credits. Teacher candidates select 2 or 3 credit hours based on their particular program

requirements and their individual goals for growth in instructional technology.

EDT 3850-3 Fiscal Resources for Learning Environments (1+2)

Literacy and software application skills equivalent to CMS/CSS 1010 or 1080 (as evidenced by Prerequisite: previous coursework in high school or college, work, personal experience, or permission of

instructor)

Prerequisite:

Corequisite:

In this course, students will work collaboratively to write funding proposals for a current request for proposal (RFP). Participants will learn how to write a persuasive narrative, supported by a strong needs analysis, plan for implementation, budget, and evaluation. Special attention will be given to formative and summative evaluations, focusing on evaluation of implementation as well as impact of the proposed project. At the end of the semester, students will submit their proposals to funding sources.

ELEMENTARY EDUCATION

American Sign Language I (3 + 0) (MDL 1610, SPE 1610) EDU 1610-3 Prerequisite:

minimum performance standard scores on the reading and writing preassessment placement

This course provides students with a basic understanding of American Sign Language including conversational skills and linguistic structures. Students are also introduced to Deaf culture. Credit will only be granted for one prefix: SPE, EDU, or MDL.

American Sign Language II (3 + 0) (MDL 1620 / SPE 1620) (This course is not approved for EDU 1620-3

guaranteed transfer to other Colorado colleges and universities)

Prerequisite: SPE/MDL/EDU 1610 or permission of instructor

This coure is a continuation of SPE 1610 emphazising expressive language as well as increasing competence with receptive language skills. The course continues to build vocabulary and familiarity with the complex grammar (morphology and syntax) of this visual language. The Deaf experience and culture is integrated throughout. Credit will be granted for only one

prefix: SPE, MDL or EDU. (General Studies-Level I, Communications)

EDU 3120-3 Education of Chicano Children (3 + 0) (CHS 3300)

Prerequisite:

EDU 3000-1

Presents the Chicano perspective on current public education policy and its implementation in the schools. Examines learning and teaching differences in students and teachers. Credit will be granted for only one prefix: EDU or CHS.

Introduction to Education (1 + 0)Completion of all Level I General Studies requirements Prerequisite:

This course is designed to acquaint the student with the historical, philosophical, financial, legal, and societal foundations involved in elementary education in a changing society. The

characteristics and requirements of the professional teacher will be clarified.

EDU 3200-3 Human Diversity: Applications to Multicultural Education (3 + 0)

Completion of all Level I General Studies requirements Prerequisite:

Pre/Corequisite: EDU 3000

> The focus of the class is to establish understanding of the four major diverse groups of students in American schools, their historical, cultural, and individual differences. This course is designed to increase student awareness of the values and beliefs, traditions, identifiers, and contributions of African Americans, Asian Americans, Hispanic Americans, Native Americans, and women. Historical, cultural, and individual variations, including socio-economic status, gender, sexual orientation, language background will be investigated to help develop respect for all students, parents, and educators in school settings. Students will discover how

personal attitudes may affect expectations and decisions in the elementary school.

EDU 3460-3 Introduction to the Education of the Gifted and Talented (3 + 0)

Prerequisite: SED 3600

Focuses on the history, myths, and characteristics of gifted and talented students as learners. Presents procedures for identification and service models, as well as teaching and learning

models for appropriate curriculum.

EDU 3640-3 Basic Techniques of Instruction, Assessment and Management (3 + 0)

EDU 3100, PŜY 1800, SED 3600 Prerequisites:

EDU 3650 Corequisite:

Students will learn to make effective decisions regarding standards and objectives, instructional planning, methodology, classroom management and assessment. Students will practice these skills in the diverse contexts in EDU 3650, a 45-hour field experience, taken concurrently.

EDU 3650-1 Elementary Instruction, Assessment and Management Field Experience (0 + 3)

Prerequisite: EDU 3100, PSY 1800, SED 3600

EDU 3640 Corequisite:

This field experience is taken in conjunction with EDU 3640. The student will spend three hours per week practicing decision-making, planning, instructional techniques, assessment and management skills in an urban multicultural public school classroom.

EDU 3660-3

Teaching Writing K-6 (3 + 0) PSY 1800, EDU 3000, EDU 3200, or equivalents EDU 3640, EDU 3650 Prerequisite:

Corequisite:

Teacher candidates will apply various components of a K-6 developmental writing program for literacy instruction with emphasis on the Colorado Content Literacy Standards to aid in the development of writing skills for diverse learners. This course provides teacher candidates the opportunity to apply theoretical concepts to lessons and assessments in conjunction

with techniques of instruction, management and assessment.

EDU 4070-3 Designing and Implementing Programs for Adult Learners (3 + 0)

PAR 2050, HSP 2020, or permission of instructor Prerequisites:

Prepares students to develop, implement, and evaluate programs for the growing population of adult learners. Emphasizes a practical design process and teaching techniques that are particularly appropriate for the adult learner. Provides the experience of implementing and

evaluating a program.

EDU 4100-3 Integrated Methods of Teaching Language Arts and the Social Studies: K-6 (3 + 0)

PSY 1800, ENG 2460, RDG 3110, EDU 3640 Prerequisites:

Corequisite: EDU 4105, RDG 4000

This course overviews the integrated methods, materials, and curricula currently in use in elementary language arts and social studies education. It will emphasize decision-making skills to foster the integration of diverse literacy skills in all academic areas. Social studies concepts and skills, as the integrating core, will be explored within the framework of age appropriate context and methods. Students will incorporate state and national standards, use technology and develop appropriate assessment strategies to evaluate instruction and pupil learning. Students must take EDU 4105, a 60-hour field experience and RDG 4000, which shares this

field experience, concurrently.

Integrated Language Arts and Social Studies Field Experience: K–6 (0 + 4.5) PSY 1800, RDG 3110, EDU 3640 EDU 4105-1

Prerequisites:

EDU 4100, RDG 4000 Corequisite:

This course is a field experience taken in conjunction with EDU 4100 and RDG 4000. The student will spend 4.5 hours per week practicing making instructional, assessment, and management decisions in reading, language arts, and social studies in the diverse contexts of a

public school classroom.

EDU 4120-3 Integrated Methods of Teaching Science, Health and Mathematics: K-6 (3 + 0)

RDG 3110, EDU 3640, PSY 1800, MTH 2620, SCI 2620 Prerequisites:

Corequisite:

This course presents an overview of the integrated methods, materials and curricula currently in use in elementary science, health and mathematics education. Promotion of positive attitudes, gender equity, inquiry, discovery, and problem-solving techniques and strategies will be stressed. Students will make decisions based on the diverse contexts of the classroom and pupils, incorporating state and national standards, including the appropriate use of technology and development of appropriate strategies to support effective instruction. Students must

take EDU 4125, a 45-hour field experience, concurrently.

Integrated Science, Health and Mathematics Field Experience: K-6 (0 + 3) EDU 4125-1

EDU 3640, PSY 1800, SCI 2620, MTH 2620, RDG 3110 Prerequisites:

Corequisite: EDU 4120

This course is a field experience taken in conjunction with EDU 4120. The student will spend three hours per week practicing making instructional, assessment, and management decisions in mathematics, science, and health in the diverse contexts of a public school classroom.

EDU 4190-6,12 Student Teaching and Seminar: Elementary K-6 (1 + 40)

Prerequisites:

successful completion of all requirements of the major, minor, elementary licensure program and General Studies content courses; successful completion of Gateway requirements for each level (I-IV) of the elementary licensure program, including initial evaluation and sign-off of the program requirement (e.g., teacher work sample/portfolio) by the education advisor This is a supervised, full-time field experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision and assessment of learners (grades K-6). Fifteen hours of seminar is part of the field experience requirement. To pass this course, teacher-candidates must be minimally rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSCD recommendation for teacher licensure. Each student teacher is required to present a completed teacher work sample to the col-

lege supervisor and peers at a student teaching seminar. (Senior Experience)

EDU 4300-2 Acting Like a Teacher (2 + 0)

satisfaction of all Level I General Studies Communication course requirements Prerequisite:

This class examines and explores the formation of classroom presence using a variety of acting, speaking and vocal techniques to develop, build, and encourage skills supporting an effective classroom persona. Students will practice and demonstrate body movement, posture, and deportment skills along with verbal and nonverbal communication skills to support classroom management and motive pupil attention and engagement. Students will identify, learn, and practice intentional vocal and visual techniques to make instructional communi-

cation more effective.

EDU 4310-3 Parents as Partners in Education (3 + 0)

Prerequisite: PSY 1800 or permission of instructor

This course focuses on parents as partners in the education of their children and emphasizes planning and activities that encourage parent involvement. In addition to parent education and involvement, it covers the history of parent education, the family, communication skills, parentteacher conferences, the exceptional child, child abuse, and rights and responsibilities of parents.

EDU 4510-4 Development of Methods and Materials for Second Language/Bilingual/Bicultural

Learning (3.5 + 1)

Prerequisites:

EDU 3510 and satisfactory proficiency in Spanish reading, writing, listening, and speaking as determined by written and oral exams administered by MSCD Spanish speaking faculty This course is designed to help students identify appropriate integrated bilingual instructional materials aligned to Colorado model content standards in the areas of reading and writing, mathematics, science, social studies, health, and fine arts. It emphasizes planning, implementing, and evaluating integrated curriculum for the linguistically and culturally diverse student with alternatives in approaches and methodology. The course includes 15 hours of field experience in a bilingual classroom where students apply course concepts in real school settings.

EDU 4650-3 **Current Issues in Education: Variable Topics (3 + 0)**

Prerequisite: advanced students in education

An in-depth examination of selected current topics and issues in education. Topics vary, but all are of current importance, requiring the study of recent writings, research, and legislation. This course may be repeated for credit under different topics.

EDU 4700-1 **Substitute Teacher Workshop** (1 + 0)

Prerequisite: bachelor's degree or permission of instructor

This course provides the background knowledge, methods, techniques and materials for substitute teachers at the elementary and middle school levels to be more confident and competent substitute instructors.

ELECTRICAL ENGINEERING TECHNOLOGY

Electronics: An Introduction (2 + 2) EET 1001-3

Prerequisite: High school algebra

A survey of Electrical Engineering Technology, emphasizing hands-on application of theory, introduces: circuits, transistor amplifiers, computer circuits, and technology related careers. Students may assemble an electronics kit. (General Studies-Level II, Natural Science)

EET 1140-4 Circuits I (3 + 2)

MTH 1110 or MTH 1400 Corequisite:

This course covers DC circuit analysis, including mesh analysis, nodal analysis, Thevenin conversion, Norton conversion, power, magnetism and magnetic circuits, capacitance, and inductance. An introduction to electrical laboratory procedures and the measurement of basic circuit parameters is also included.

Circuits II (3 + 2)EET 1150-4

EET 1140 and MTH 1400 (or MTH 1120 corequisite) Prerequisites:

This course is a continuation of EET 1140, using trigonometry and complex algebra. Studies include single time constant circuits, phasors, and the j operator, RLC circuits with sinusoidal, steady state sources, impedance and admittance, AC formulation of classic network theorems, complex network equations, complex power, frequency response, transformers, and two-port network models.

EET 1300-3 Computer Nuts and Bolts (2 + 2)

This is a course to introduce students to the installation of computer hardware and software. An A+ certification book is used for the text, however this is not an A+ certification class.

Electric Circuits and Machines (2 + 2) EET 2000-3

Prerequisites: MTH 1120 or MTH 1400, PHY 2020 or PHY 2331, with grades of "C" or better

This course introduces electric circuits for non-EET majors. It covers DC and AC circuits, generators, motors, transformers, elementary electronic devices, and circuits.

EET 2140-3 Electronics I (2 + 2)

EET 1150 Prerequisite:

This course is a study of semiconductor diode and bipolar junction transistor devices and MOS field effect transistors. The course also covers frequency response of cascaded amplifiers.

EET 2150-3 Electronics II (2 + 2)

Prerequisite: EET 2140

This course is a study of thyristors, basic operational amplifiers, and voltage regulators. Students will learn to use an internet browser to obtain data sheets for components.

EET 2310-4 Digital Circuits I (3 + 2)

Prerequisites: High school algebra or equivalent and appropriate score on the mathematics pre-assessment

placement test

This course covers the analysis and design of logic circuits using Boolean algebra and Karnaugh maps. Adders, comparators, decoders, encoders, multiplexers and other logic circuits are also studied. Flip-flops, memories, analog to digital (ADC) and digital to analog converters (DAC) are used to design simple digital circuits. Computer architecture is introduced.

EET 2340-3 **Technical Programming Applications (3 + 0)**

Prerequisite: MTH 1400 (or MTH 1110 and MTH 1120)

This is a beginning-level course using Visual Basic and spreadsheets. Students will solve engineering applications problems from the various areas of civil, electrical and mechanical

engineering technology.

EET 2350-3 Advanced Technical Programming (3 + 0)

EET 2140 and EET 2340 Prerequisites:

This is an advanced-level programming course using the C language. Methods for solving

circuit and electronics problems using the C programming language are studied.

EET 2800-3 Cooperative Education (1 + 6)

Prerequisite: formal admission to Cooperative Education Program and permission of department chair

A seminar course allowing working students to share work experience and to report on

particular projects.

EET 3010-4 Industrial Electronics (3 + 2)

Prerequisite: EET 1150 or EET 2000

This course covers the application of transistors, op amps, and other electronic devices, both

analog and digital. This course is for mechanical engineering technology majors and EET

minors. It is not acceptable for EET major requirements.

EET 3110-4 Circuit Analysis with Laplace (4+0)

Prerequisites: EET 1150 and MTH 2410

This is an advanced-level circuit analysis course using calculus and Laplace transforms.

PSpice or similar CAD software is used as a tool for circuit analysis in this class.

Advanced Analog Electronics (3 + 2)EET 3120-4

EET 2150 and EET 3110 with grades of "C" or better Prerequisites:

This course is an advanced analog electronics course with emphasis on the operational

amplifier. Topics include: power supplies, active filters, amplifiers, nonlinear circuits, and

computer simulation.

EET 3330-3 Digital Circuits II (2 + 2)

Prerequisite: EET 2310 or EET 2320

A continuation of EET 2320. Sequential logic circuits (counters and shift registers), semicon-

ductor memories, A/D and D/A interfacing, and PLDs are studied.

EET 3350-3 Embedded Applications Using C++(3+0)

Prerequisite:

This is a project-oriented course, emphasizing programming hardware systems using the

C++ programming language.

EET 3360-3 Microprocessors (2+2)

EET 2310, and one high-level computer language (BASIC, Visual BASIC, C, C++, Java, etc.) Prerequisites:

This course covers microprocessor hardware and software. The following topics are discussed: microprocessor architecture, microprocessor instruction set, assembly language program-

ming, input/output techniques, and interrupt request handling.

EET 3410-3 Electric Machines (2 + 2)

Prerequisite:

EET 2150 or EET 3010 with a grade of "C" or better This course studies motors and generators and their applications.

EET 3420-3 Electric Power Distribution (3 + 0)

EET 2150 or EET 3010 with a grade of "C" or better Prerequisite:

This course studies techniques and equipment employed in electric power distribution

and control.

EET 3430-3 Power Generation Using Solar Energy (2 + 2)

Prerequisites: EET 2140 and EET 2340 with grades of "C" or better

This course examines the application of solar power generation using photovoltaic cells, wind

machines and thermal engines.

EET 3620-3 Analog and Digital Communications (3 + 0)

EET 2150 or EET 3010 with a grade of "C" or better Prerequisite:

This course is an introduction to communication systems. Topics include: information theory, channel capacity, A/D and D/A techniques, modulation (AM, FM, and digital), noise

sources, quantization, and transmission lines including Smith Charts.

EET 3630-3 Electromagnetic Fields (3 + 0)

EET 3110 and EET 3620 with grades of "C" or better Prerequisites:

This course covers mathematical concepts of static and dynamic electromagnetic fields. Topics include: planewave propagation in lossless and lossy media, waveguide propagation, and

radiation principles.

Measurements for Communications Systems (1+4)EET 3670-3

Prerequisites: EET 2340 and EET 3620

Students learn to perform measurements on communication circuits, including SNR, noise figure, impedance, admittance, phase, power, frequency, spectrum analysis, and fields at high

frequencies.

Fiber Optics (2+2)EET 3690-3

trigonometry and two semesters of college-level physics, with grades of "C" or better Prerequisites:

Fiber optics is studied, including ray propagation, emitters, detectors, connectorization and

systems, FDDI and SONET.

EET 3710-3

Control Systems Analysis (3 + 0) EET 3110 with a grade of "C" or better Prerequisite:

This course analyzes classical linear continuous-time control systems. Topics include: Laplace transform, Bode plots, stability, transient response, steady-state response, and the design of

PID, lag, and lead compensators.

EET 3720-1 Control Systems Laboratory (0 + 2)

EET 3120 and EET 3710 with grades of "C" or better Prerequisites:

This laboratory course uses the classical approach to the analysis and design of control systems.

EET 3730-2 **Process Control Systems (2 + 0)**

high school algebra or equivalent and appropriate score on the mathematics pre-assessment Prerequisite:

placement test

This course introduces the applications of PID controllers in the process control industry.

EET 3740-2 Programmable Logic Controllers (2 + 0)

Prerequisite: high school algebra or equivalent and appropriate score on the mathematics pre-assessment

placement test

This course covers the application of programmable logic controllers (PLC) and their pro-

gramming, using ladder diagrams.

EET 3800-3 Cooperative Education (0 + 9)

at least junior standing and permission of department chair Prerequisites:

This is an advanced work experience in a private company or governmental agency related to the EET major and supervised by a competent professional on the work site in conjunction

with an EET faculty member.

EET 4020-3 **Verilog Hardware Description Language (2 + 2)**

Prerequisites: EET 3330, EET 2350 or CSS 2227, with grades of "C" or better

The Verilog Hardware Description Language is studied. It is used to design and simulate very

large digital integrated circuits.

EET 4100-1 Senior Project I (0 + 2)

ENG 1020, COM 2610, EET 3120 or CS 3400, EET 3360 or CS 2400, with grades of "C" or Prerequisites:

better, satisfaction of all Level I and Level II General Studies course requirements, and senior

This course provides the opportunity to plan design projects in consultation with faculty

advisors. Interfacing with industry is encouraged. (Senior Experience)

EET 4110-2 Senior Project II (0 + 4)

SPE 1010 and EET 4100 with grades of "C" or better, satisfaction of all Level I and Level II Prerequisites:

General Studies course requirements, and senior standing

This course is a continuation of Senior Project I. Students complete their designs and build, test, and demonstrate them. Written technical reports and oral presentations on projects are

required. (Senior Experience)

EET 4320-3 Digital Filters (2 + 2)

EET 2340, EET 3110, MTH 2410, with grades of "C" or better Prerequisites:

This course introduces digital filters as applied in digital signal processing and sampled data

control systems.

EET 4330-3 Data Communications (2 + 2)

Prerequisite: EET 2310 with a grade of "C" or better

This course covers methods of local and distant digital communications including: systems, stan-

dards, and hardware used for transmitting digital data either synchronously or asynchronously.

EET 4340-3 Interface Techniques (2 + 2)

EET 3330 and EET 3360 with grades of "C" or better Prerequisites:

This course covers interfacing techniques between computers, peripherals, and other digital circuits.

EET 4370-3 Microcontrollers (2+2)

EET 3360 with a grade of "C" or better Prerequisite:

This course teaches microcontroller design. Topics include: programming, monitor functions,

hardware configurations, timing, analog to digital conversion, parallel I/O, and serial I/O.

EET 4520-3 Cellular & PCS (Personal Communication Services) (3 + 0)

EET 3620 Prerequisite:

This course is a study of analog and digital cellular and personal communication services,

including AMPS, GSM, CDMA, wireless LANs, and others.

EET 4620-3 Advanced Communications Systems (3 + 0)

Prerequisite: EET 3620 with a grade of "C" or better

This course covers the analysis and design of advanced communication systems including

HF, VHF, UHF, microwave, spread spectrum, optical, video, and satellite systems.

EET 4630-3 Space and Satellite Communications (2 + 2)

EET 3620 with a grade of "C" or better Prerequisite:

This course covers the application of basic communications, power and microwave theory to

space and satellite communication systems.

EET 4640-3 Communication Circuit Design (3 + 0)

EET 3630 with a grade of "C" or better Prerequisite:

This course covers the analysis and design of radio frequency electronic circuits for commu-

nication transmission and reception.

EET 4710-4 Digital Control Systems Design (4+0)

EET 3710 with a grade of "C" or better Prerequisite:

This course covers designing digital control systems, using classical and modern control theory. State variable feedback control laws and observers are designed.

EET 4730-3 Robotics (3+0)

Prerequisites:

EET 2140 or EET 3010, MTH 2410, with grades of "C" or better This course covers analysis and design of robots. Includes robot kinematics, inverse kinemat-

ics, kinetics, sensors, actuators, and industrial applications.

ENGLISH

ENG 1010-3 Freshman Composition: The Essay (3 + 0)

a score of 95 or higher on the Accuplacer sentence skills exam or a "C" or better in CCD's ENG Prerequisite:

090 course. Students with an ACT ENG score of 18 or higher or a SAT verbal score of 450 or

higher are exempt from the placement exam.

ENG 1010 is a course in the process of writing and revising shorter college-level essays. Classes include lecture, discussion, workshop, and conference methods. By the close of the semester, students will demonstrate their ability to generate, organize, and present writing for the appropriate audience. (General Studies—Level I, Composition) (GT–CO1)

ENG 1020-3

Freshman Composition: Analysis, Research, and Documentation (3 + 0)

Prerequisite: ENG 1010 or its equivalent

ENG 1020 is a course in the process of writing extended essays supported by research. The course includes an introduction to library use, research techniques, and conventions of documentation as well as practice in critical reading, thinking, and writing across the disciplines. Students can expect to do a series of shorter writing assignments leading to the longer, documented paper. Many sections of ENG 1020 include hands-on instruction on the use of the computer in research and writing in a computer lab. (General Studies—Level I, Composition) (GT–CO2)

ENG 1100-3

Introduction to Literature (3 + 0)

Prerequisite:

minimum performance standard scores on the reading and writing freshman placement tests. This is a course in the general appreciation and understanding of literary genres, including fiction, drama, and poetry. It is recommended for the General Studies requirement. (General Studies—Level II, Arts and Letters)

ENG 1110-3

110-3 Introduction to Fiction (3 + 0)

Prerequisite:

minimum performance standard scores on the reading and writing freshman placement tests. This course is a critical introduction to selected short fiction, with an emphasis on twentieth-century British and American writings and a secondary emphasis on non-Anglo-American fictions. (General Studies—Level II, Arts and Letters)

ENG 1120-3

Introduction to Drama (3 + 0)

Prerequisite:

minimum performance standard scores on the reading and writing freshman placement tests. This course in drama appreciation studies plays representing different genre and periods, presented with a modern perspective. (General Studies—Level II, Arts and Letters)(GT-AH2)

ENG 1140-3

Literature of Popular Interest: Variable Topics (3 + 0)

Prerequisite:

minimum performance standard scores on reading, writing, and math preassessment placement tests

Courses that have an appeal at a given time will be offered under this general title. The specific course or courses will be designated by a descriptive title, such as science fiction, detective fiction, or tales of terror. This course may be repeated for credit under different titles for elective credit.

ENG 1310-3

Introduction to Shakespeare (3 + 0)

Prerequisite:

minimum performance standard scores on the reading and writing freshman placement tests This course is an introduction to Shakespeare especially designed for a general audience. (General Studies—Level II, Arts and Letters)

ENG 2010-3

The Nature of Language (3 + 0)

This course provides an overview of dynamic, contemporary linguistic insights into grammars, language acquisition, social dialects, sound and meaning systems, and systematic bases for language change. It is also an examination of myths and illusions about human and animal languages. It is primarily for majors in humanities and social sciences, but especially appealing to science majors because of the examination of the regular systems underlying natural languages.

ENG 2100-3

Introduction to Literary Studies (3 + 0)

Pre/Corequisite:

ENG 1020 or permission of instructor

Designed primarily for English majors and minors, this course introduces students to the study of literature as a discipline. It considers the terminology, traditions, critical approaches, and controversies of literary study. Students will read, discuss, and write about literature written by men and women from a variety of cultures, past and present.

ENG 2110-3

World Literature: Beginnings to 1600 (3 + 0)

Prerequisite:

ENG 2100 or permission of instructor

This course is a study of literature in translation, written before 1600 by men and women from various times and cultures.

ENG 2120-3 Prerequisite:

World Literature: 1600 to Present (3 + 0)

ENG 2100 or permission of instructor

This course is a study of literature, much of it in translation, written after 1600 by men and women of various times and cultures.

ENG 2210-3 American Literature: Beginnings through the Civil War (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

An introduction to characteristic American modes of expression such as oral tales, diaries, and narratives as well as essays, fiction, drama, and poetry created by men and women of

diverse backgrounds.

ENG 2220-3 American Literature: Civil War to Present (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

An introduction to characteristic American modes of expression such as oral tales, diaries, and narratives as well as essays, fiction, drama, and poetry created by men and women of

diverse backgrounds.

ENG 2240-3 Native American Literatures (3 + 0)Prerequisite: ENG 1010 or permission of instructor

This course studies the oral and written literatures of Native Americans in the context of historical, political and social conditions of the time that they were produced. It is suitable for

non-English majors. (Multicultural)

ENG 2310-3 British Literature: Beginnings to 1785 (3 + 0)

Pre/Corequisite: ENG 2100 or permission of instructor

This course surveys the literature of the British Isles from the Anglo-Saxon period to 1785,

including poetry, drama, fiction, and essays.

ENG 2330-3 British Literature: 1785 to Present (3+0)

Prerequisite: ENG 2100 or permission of instructor

This course surveys the literature of the British Isles since 1785, including poetry, drama, fic-

tion, and essays.

ENG 2410-3 Survey of Chicana/o Literature (3 + 0) (CHS 2010)

Prerequisite: CHS 1000 or permission of instructor

This course reviews major literary genres associated with Chicana and Chicano creative expression from the 1800s to the present including poetry, drama, and the novel. Credit will

be granted for only one prefix: CHS or ENG. (General Studies–Level II, Arts and Letters)

ENG 2420-3 Chicano Poetry and Drama (3 + 0) (CHS 2020)

Prerequisite: CHS 2010 or permission of the instructor

This course is an intensive study of Chicano poetic and dramatic arts as they attempt to create a new reality. The course will also equip the student with a basic approach to poetry and drama as a craft through production. Credit will be granted for only one prefix: ENG or CHS.

Suitable for non-English majors.

ENG 2450-3 Women's Literature (3 + 0) (WMS 2450)

Prerequisites: ENG 1010 and ENG 1020 for students enrolled through English; ENG 1010 and WMS 1001

for students enrolled through Women's Studies

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. Credit will be granted

for only one prefix: ENG or WMS.

ENG 2460-3 Introduction to Children's Literature for Non-Majors (3 + 0)

Prerequisite: satisfaction of Level I General Studies requirements

This course is intended for non-English majors who plan a career in elementary education or who have a general interest in the subject of children's literature, that is, writing intended for an audience ranging from pre-readers to early adolescents. This course will survey the genres and the history of such literature, including various oral traditions and current issues. Students will develop their abilities to understand, analyze, appreciate, and critique children's

literature. (General Ŝtudies–Level II, Arts and Letters)

ENG 2500-3 Art and Craft of Writing (3 + 0)

Prerequisite: ENG 1020 or permission of instructor

This course provides a conceptual framework for analyzing writing situations, offers models, immerses students in practice, invites them to join a community of writers, and engages them in facets of writing (e.g., prewriting, drafting, response, editing, revision, and publication).

ENG 2520-3 Introduction to Creative Writing (3 + 0)

Prerequisite: ENG 1020 or permission of instructor

This introductory course employs lectures, group discussions, and exercises in writing fiction,

poetry, and drama.

ENG 3020-3 History of the English Language (3 + 0)

Prerequisite: ENG 2010 or permission of instructor

A study of both the internal history (sounds and inflections) and the external history (the great political, social, and cultural influences) that have combined to make the English lan-

guage what it is today, including an analysis of regional and dialectal speech.

ENG 3030-3 Semantics (3+0)

Prerequisites: ENG 2010 or permission of instructor, satisfaction of Level I General Studies requirements

Students will study the origins of meaning in natural language, examine significant linguistic units that carry meaning, and the formal/informal systems that account for meaning. The course surveys symbolic, historical, and pragmatic elements associated with semantics and deals systematically with basic concepts, theories, and analytical techniques in contemporary linguistics. It is especially recommended for majors in pre-law, communication, law enforcement, psychology, philosophy, teaching, and related disciplines. (General Studies—Level II,

Arts and Letters)

ENG 3040-3 Morphology and Syntax (3 + 0)

permission of instructor; ENG 2010 is recommended but not required for students who have Prerequisites:

had little or no recent study in language principles

This is an intermediate study of principles of grammar, primarily English grammar (morphology and syntax), approached through an examination of basic principles of syntactic theories. The course content covers a selection of principles from structural linguistics and an introduction to the basics of generative-transformational syntactic theory. Analysis of structures and discussions of several theories underlying systematic language study are included.

ENG 3050-3

Language and Society (3 + 0) any of the following: ENG 2010, ENG 3020, ENG 3030, ENG 3040, ANT 2330 or permission Prerequisites:

of instructor

This course examines the dynamic relationships between language and society. The students will investigate why people speak differently in different social contexts by identifying the social functions of language and the ways in which language is used to convey social meaning. The course focuses on language variation, including such topics as languages and dialects, pidgins and creoles, bilingualism and multilingualism, linguistic solidarity and politeness, language planning and language change. Field methods, including ethical research proce-

dures, will be in integral part of the course.

ENG 3060-3 Modern Language Theory (3 + 0)

Prerequisite: ENG 2010 or permission of instructor

> This course analyzes language and language theories. The patterns of language—sounds, words, phrases, and sentences—are examined in the context of modern language theory, including generative grammar, functional grammar, or other relevant theoretical approaches.

ENG 3070-3 Old English (3 + 0)

Any one of the following: ENG 2010, 3020, 3030, 3040, 3050, 3060, ANT 2330 or permission Prerequisite:

of instructor

This course covers the basic vocabulary and grammar needed to read texts in Old English with the aid of a dictionary. It also addresses the relevant cultural and historical context necessary for understanding the texts. The course is designed for English, Modern Language, and

History majors, as well as Language/Ligustics minors.

Chaucer, Shakespeare, Milton (3+0) ENG 3100-3

Prerequisite: ENG 2100 or permission of instructor

This course is a study of major works by Geoffrey Chaucer, William Shakespeare, and John Milton designed to give the student an understanding of their contributions to English literature.

Selected Literary Periods: Variable Topics (3 + 0) ENG 3110-3

Prerequisite: six semester hours of English courses at the 2000 level or above or permission of instructor

This course studies characteristic writers responding to ideas and events in a literary period. Readings will include primary literature of the period, as well as materials exploring the liter-

ature's contexts. This course may be repeated under different topics.

ENG 3210-3 Development of American Drama (3 + 0)

Prerequisite: six semester hours of English above 1020 or permission of instructor

The course is a study of the development of drama written in the United States from 1714 to

the present and of the relationship of this drama to American literature and culture.

ENG 3230-3 Development of the American Novel (3 + 0)

six semester hours of English above 1020, or permission of instructor Prerequisite:

This course is a study of development, practice, theory, and critical evaluation of the selected

American novels from the early nineteenth century to the present day.

ENG 3240-3 African American Literature (3 + 0) (AAS 3240)

six semester hours of English above 1020 or permission of instructor and satisfaction of Level Prerequisites:

I General Studies course requirements

This course is a study of the various forms of literature produced by black Americans. The works are considered in the context of the historical and social conditions of the time at which they were written. Credit will be granted for only one prefix: ENG or AAS. Suitable for non-

English majors. (General Studies—Level II, Arts and Letters; Multicultural)

ENG 3310-3 Development of British Drama: Mysteries to Melodrama (3 + 0)

six semester hours of English above 1020 or permission of instructor Prerequisite:

This course involves the study of representative plays from the Medieval period to the present

and of their importance to literature and culture.

ENG 3330-3 Development of the British Novel (3 + 0)

Prerequisite: six semester hours of English above 1020

This course is a study of developing practice and theory together with critical evaluation of the British novel through the 19th century.

ENG 3400-3 Development of Modern Poetry (3 + 0)

Prerequisite: six semester hours of English above 1020 or permission of instructor

This course is a study of the theory and prosody of twentieth-century poetry.

ENG 3410-3 Development of Modern European Literature (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

This course studies major works by European writers from 1637 to the present.

ENG 3420-3 The English Bible as Literature (3 + 0)

completion of Level II General Studies lower-division literature course (ENG 1100, ENG Prerequisites:

1110, ENG 1120, or ENG 1310), or permission of instructor; satisfaction of Level I General

Studies course requirements

This course is a critical study of the Bible in English with emphasis on the literary forms and cultural contexts of the Old and New Testaments. Students are expected to approach the course in a spirit of open enquiry fundamental to any literary study. The course focuses on the significant ideas of Judaism and Christianity in their historical contexts rather than the

contexts of specific modern religions. (General Studies—Level II, Arts and Letters)

ENG 3430-3 Classical Mythology (3 + 0)

completion of Level II General Studies lower-division literature course (ENG 1100, ENG Prerequisites:

1110, ENG 1120, or ENG 1310), or permission of instructor; satisfaction of Level I General

Studies course requirements

This course is a study of Greek and Roman myths, their parallels in other mythologies, and their occurrences in literature and criticism. By tracing the modifications of various myths from their most ancient forms of literature, the course will acquaint students with the contin-

ued vitality of mythology. (General Studies—Level II, Arts and Letters)

ENG 3440-3 Myth, Symbol, and Allusion in Literature (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

This course is a critical study of themes and symbols that commonly appear in mythic texts of cultures worldwide, from ancient to modern, with consideration of relevant literary theory

and criticism.

ENG 3461-3 Children's Literature: Theory and Practice (3 + 0)

ENG 2100 Prerequisite:

satisfaction of Level I General Studies requirements Corequisite:

This course studies all levels and types of children's literature with attention to literary theory and

instructional practices. It focuses on responses to and analyses of children's literature in print and

non-print forms. Issues discussed will include selection, culture, gender, and diversity.

ENG 3470-3 Young Adult Literature (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor

> This course provides a critical survey of all types and genres of contemporary young adult literature. It focuses on issues relating to selection, culture, gender, diversity, and response to

and analysis of literature in both print and nonprint forms.

ENG 3480-3 The Chicano Novel (3+0) (CHS 3400)

CHS 2010 or permission of instructor Prerequisite:

This course deals with origins, themes and techniques that characterize the Chicano novel. It is an in-depth study of the best examples of literary production in both Spanish and English. Credit will be granted for only one prefix: ENG or CHS. Suitable for non-English majors.

ENG 3490-3 Chicano Folklore of the Southwest (3 + 0) (CHS 3410)

Prerequisite: CHS 2000 or permission of instructor

This course accents the study of oral and written folklore as a genre in Chicano history and culture. Its focus is upon tales, traditions, belief, and humor as a means to gain insight into what is culturally specific. Credit will be granted for only one prefix: ENG or CHS. Suitable

for non-English majors.

ENG 3510-3 Advanced Composition (3 + 0)

six semester hours of English at the 2000-level or above or permission of instructor Prerequisite:

A study of the theoretical and ethical bases of persuasive writing and practice in the principles and techniques that affect constructive persuasion in a pluralistic society. Suitable for

non-English majors.

ENG 3521-3 Creative Writing Workshop: Poetry (3 + 0)

ENG 2500 or permission of instructor Prerequisite:

This class will include group discussions and supervised workshops and projects in poetry.

ENG 3522-3 Creative Writing Workshop: Fiction (3 + 0)

Prerequisite: ENG 2500 or permission of instructor

This class will include readings, lectures, group discussions and supervised workshops and

projects in writing fiction.

ENG 3523-3 Creative Writing Workshop: Drama (3 + 0)

ENG 2500 or permission of instructor Prerequisite:

This class will include readings, lectures, group discussions and supervised individual proj-

ects in writing dramatic literature.

ENG 3530-3 Techniques of Critical Writing (3 + 0)

six semester hours of English above 1020, or permission of instructor Prerequisite:

This course examines methods and practices in writing critical responses to art forms, including literature, theatre, and film. It also provides experience in writing journalistic and aca-

demic criticism. Suitable for non-English majors.

ENG 3670-3 Writing Tutor (3 + 0)

ENG 1010, ENG 1020, and permission of instructor Prerequisites:

A course designed to familiarize students with principles and practices of teaching writing in a tutorial setting. Communications and English majors or minors or students who have a

special interest in writing are preferred.

ENG 3700-3 Literature and the Law (3 + 0)

one upper-division course in the humanities or social sciences or one literature course; or Prerequisite:

permission of instructor
The course will examine questions about law, justice, and morality through an examination

of selected pieces of world literature.

Writing Studio: Variable Topics (3+0)ENG 3820-3

ENG 2500 or ENG 2520 and completion of the appropriate 3000-level writing course, or Prerequisites:

permission of instructor

This course offers specialized studios in the writing of a particular literary subgenre or expository form. Coursework may incorporate lectures, selected textual studies, group discussion, workshops, and supervised projects. This course may be repeated for credit under

different topics.

ENG 4010-3 Studies in Linguistics: Variable Topics (3 + 0)

Any of the following: ENG 2010, ENG 3020, ENG 3030, ENG 3040, ENG 3050, ENG 3060, Prerequisites:

ANT 2330

The different seminar topics, some theoretical and some applied, range over extensive research in linguistic studies from grammars to stylistics to speech acts and language processing. Individualized projects may be completed. This course may be repeated for credit under

different topics.

ENG 4110-3 Advanced Studies in Literature: Variable Topics (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor

This course studies selected works chosen as representative of an important "school" or group within a period of literature. This course may be repeated for credit under different topics.

ENG 4120-3 Selected Themes in Literature: Variable Topics (3 + 0)

six semester hours of English above 1020, or permission of instructor Prerequisite:

This course studies literary works selected as significant expressions of a theme, idea, or mode. The works may be drawn from one or more literary eras. This course may be repeated

for credit under different topics.

ENG 4130-3 Major Authors: Variable Topics (3 + 0) (CHS 4200)

Prerequisite: six semester hours of English above 1020, or permission of instructor

The course traces in representative works the artistic and intellectual development of one or two important writers. This course may be repeated for credit under different topics. Credit

will be granted for only one prefix: ENG or CHS.

ENG 4140-3 Modern Continental, British, and American Drama (3 + 0)

six semester hours of English above 1020, or permission of instructor Prerequisite:

This course encompasses a survey of the important dramatic work of the last hundred years with emphasis on frends of development. Plays by German, Scandinavian, Russian, Italian,

Spanish, French, British, and American playwrights are included.

ENG 4310-3 Shakespeare: Comedies, Histories, Sonnets (3 + 0)

Prerequisite:

six semester hours of English above 1020, or permission of instructor Selected comedies, and histories, including The Taming of the Shrew, A Midsummer Night's Dream, The Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Richard II,

Henry IV, 1 and 2, Henry V, and selected sonnets.

Shakespeare: Tragedies and Ethical Problem Plays (3+0)ENG 4320-3

Prerequisite: six semester hours of English above 1020, or permission of instructor

Selected tragedies and problem plays, including Romeo and Juliet, Julius Caesar, Hamlet, Othello, King Lear, Macbeth, Antony and Cleopatra, Measure for Measure, Troilus and Cres-

sida, and Cymbeline.

Advanced Writing (3 + 0) ENG 4520-3

satisfaction of all Level I and Level II General Studies course requirements, senior standing, Prerequisites:

completion of all lower-level writing requirements in the Writing concentration of the English

major or minor, or permission of instructor

This capstone course in the Writing concentration provides instruction for advanced projects

in writing fiction, poetry, drama, or nonfiction. (Senior Experience)

ENG 4600-3 Teaching Literature and Communication, 7-12 (3+0)

senior standing and completion of ENG 2100, ENG 2500, ENG 3020, and ENG 3470 or equiv-Prerequisites:

alent courses as determined by a Department of English advisor, or permission of instructor This course is intended for students seeking a degree in English with a concentration in Secondary Education through MSCD or for students seeking licensure through MSCD to teach secondary English. Students will learn theories and techniques for teaching literature, understanding and responding to texts, and integrating spoken and written communication. The course will also address language diversity, cross-cultural communication, and the oral tradi-

tion in literature.

ENG 4610-3 Literary Criticism: Theory and Practice (3 + 0)

Prerequisites: satisfaction of all Level I and II General Studies course requirements, completion of ENG

2100, and senior standing; or permission of instructor

Students in this course read major texts in the history of literary criticism, from Greek and Roman writers to the present. Students distinguish various critical strategies and apply them to literature. Course work includes some advanced study of literary work and critical writing about it. This course is required for English majors in the literature concentration.

(Senior Experience)

ENG 4620-3 Prerequisites:

Teaching Composition, 7-12(3+0)

senior standing and completion of ENG 2100, ENG 2500, ENG 3510, or equivalent courses as

determined by a Department of English advisor, or permission of instructor

This course is intended for students seeking a degree in English with a concentration in Secondary Education through MSCD or for students seeking licensure through MSCD to teach secondary English. This course integrates theory and research in composition with personal practice and pedagogical implementation. Students will learn how to teach writing by practicing writing themselves, examining contemporary theories of writing instruction, and making purposeful selection of pedagogical strategies.

ENG 4640-3 Teaching

Teaching English, 7-12(3+0)

This course is intended for students seeking a degree in English with a concentration in Secondary Education through MSCD or for students seeking licensure through MSCD's Teacher Education Program to teach secondary English. Degree-seeking students who are not seeking licensure prior to graduation should take this course during their last semester of coursework. Students who are seeking licensure should take this course during the semester prior to their student teaching. In this course, students preparing to teach English in grades 7 through 12 will integrate knowledge and pedagogical strategies from earlier courses. Students will address issues of diversity, adolescent development, integration of the English language arts, and their own professional development. Students will apply concepts learned in ENG 4640 to field placements in secondary school settings in collaboration with EDS 3220. (Senior Experience)

ENG 4650-3 Prerequisites:

Teaching Composition in Elementary School K-6 (3 + 0)

ENG 3510, at least junior standing, or permission of instructor

This course incorporates the writing process, developmental growth and fluency of K–6 writers, writing skills and assessment, sequential composition curricula, and techniques and materials for teaching composition.

ENG 4660-3

Teaching Literature and Language K-6 (3+0)

Prerequisites:

satisfaction of all Level I and Level II General Studies requirements, senior standing and completion of ENG 3020 and ENG 3461 or permission of instructor

This course focuses on the comprehension and teaching of literature and language for K–6 students, with emphasis on the elements, characteristics, and type of literature and on the forms, functions, and uses of language, grammar, and usage. (Senior Experience)

ENVIRONMENTAL SCIENCE

ENV 1200-3

Introduction to Environmental Science (3 + 0)

Prerequisite:

minimum performance standard scores on reading, writing, and mathematics preassessment

This course is an introduction to the study of the physical environment and some of the major related issues and problems. The areas of concern include the nature of the environment, climatic factors, agriculture, solid and hazardous waste site location, global environmental hazards, land use, water resources, and energy and mineral resources, as well as environmental ethics and management and decision making. (General Studies—Level II, Natural Science) (GT-SC2)

ENV 1400-3

World Resources (3 + 0)

Prerequisite:

minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

This course provides a survey of the physical resources of the world, including water, soil, vegetation, energy, and minerals. This course includes an analysis of geographic occurrence, extraction, appraisal, utilization, historic changes, and environmental issues. (General Studies—Level II, Natural Science) (GT-SC2)

ENV 1540-2

Geologic and Environmental Hazards—Denver and Vicinity (2 + 0)

Prerequisite:

GEL 1010 recommended

This courses examines the geologic and environmental hazards around the Denver region, including mass wasting, swelling clays, subsidence and flooding, as well as contamination and remediation efforts at the Lowry Landfill and the Rocky Mountain Arsenal. Future homeowners learn the meaning of "buyer beware." Note: Students cannot take both ENV 1540 and ENV 3540 for credit.

ENV 3100-3 Air Pollution (3+0) (MTR 3100-3)

ENV 1200 or MTR 2400 Prerequisite:

This course examines the causes and control of air pollution. Topics include pollutant sources and sinks, regional and global-scale pollution problems, monitoring and sampling techniques, regulatory control, meteorological influences, and indoor air quality.

ENV 3400-3 Water Resources (3 + 0)

ENV 1200 or ENV 1400, one of the following: GEG 1100, GEG 1230, or GEL 1010 Prerequisites:

This course presents an analysis of water as a major resource. It includes the study of the hydrologic cycle, competing water uses, current water problems, and approaches to water management. The relationship of water to land use is examined in terms of dams, watersheds,

water laws, pollution, and flood control.

ENV 3540-2 Advanced Geologic and Environmental Hazards—Denver and Vicinity (2 + 0)

nine hours of geography or geology or permission of instructor Prerequisite:

This course requires an analytical approach to the geologic and environmental hazards around the Denver region, including mass wasting, swelling clays, subsidence and flooding, as well as contamination and remediation efforts at the Lowry Landfill and the Rocky Mountain Arsenal. Future homeowners learn the meaning of "buyer beware." Note: Students cannot

take both ENV 1540 and ENV 3540 for credit.

ENV 3620-3 Population, Resources, and Land Use (3 + 0)

GEG 1000 or GEG 1300, six hours in geography; ENV 1400 recommended Prerequisites:

This course examines the distribution and density of the global population and the relationship of these patterns to world resources and development problems. Population shifts, including birth, death, migration, and doubling rates are analyzed. Data analysis and projec-

tions are covered.

ENV 4000-3 Environmental Geology (2 + 2)

GEL 1010 plus a minimum of six hours in geology or physical geography or permission of Prerequisites:

instructor; GEL 3120 (or GEG 1240) and GEL 3060 strongly recommended

The close relationship of the environment to the geology of the earth is examined. Basic geology, geologic processes, and geologic techniques are applied to the environment in a series of practical problems. Interpretation of topographic and geologic maps is required. Natural geo-

logic hazards are revealed in a series of actual case studies performed by the student.

ENV 4010-3 Environmental Hazards and Planning (3 + 0)

ENV 4000; GEG 3610 recommended Prerequisites:

This course evaluates environmental hazards relative to various land-use patterns. It utilizes case studies and Geographical Information Systems (GIS) to examine hazards and prepare model and alternative plans. Environmental audit procedures and environmental impact

statements (EIS) are studied as part of the planning process.

ENV 4200-3 Environmental Policy and Planning (3 + 0)

Prerequisites: ENV 1200 or ENV 1400 and at least junior standing; GEG 3610 or ENV 4010 recommended

This course provides an overview of environmental policy and major environmental laws in the U.S. The major statutes are analyzed in terms of purpose, scope, implementation, compliance requirements, and impact on land use. Case studies are examined in a planning context.

ENV 4410-3 Water Law (3 + 0)

ENV 1200 or ENV 1400 or ENV 3400 or permission of instructor Prerequisites:

This course surveys U.S. water law and administration. Topics include (1) why we need laws regulating water use, (2) how ancient water laws influenced U.S. water law, (3) variations of surface and groundwater law, including prior appropriation, riparian, and hybrid, (4) international and interstate agreements, and (5) a special focus on water administration in the West.

ENV 4420-3 Wetlands (3 + 0)

ENV 1200 or ENV 1400 or ENV 3400 or permission of instructor Prerequisites:

This course offers a broad overview of wetland landscapes. Topics include (1) spatial distribution (local and national), (2) variations in wetlands topology (salt-water versus fresh-water and warmer versus colder climates), (3) relationships between wetlands (migratory flight paths), (4) wetlands ecosystems, (5) human impacts on wetlands, (6) federal, state, and local

wetlands regulations, and (7) international wetlands problems.

ENV 4430-2 Habitat Planning (2 + 0)

Prerequisite: at least junior standing in geography, geology or land use or permission of instructor

This is an interdisciplinary course designed to examine the forces and impacts of urban expansion on wildlife habitats. Topics include national and local trends in urban growth, environmental ethics, economic and political issues related to habitat planning, and exami-

nation of selected case studies of habitat conservation plans.

Global Environmental Challenges (3 + 0) ENV 4960-3

Twelve hours of upper division courses in geology, geography, biology and/or meteorology or Prerequisites:

written permission of instructor, and senior standing

This course will include the identification of major global environmental problems, including causes and impacts and the interplay of economic, cultural, and political forces. The approach will be a geographic analysis including location, spatial distribution, density, boundaries, and physical factors such as landforms, soils, and climate. Students are responsible as individuals and groups for presentations and discussions. (Senior Experience)

ENV 4970-3 Environmental Field Studies (1 + 4)

Prerequisites:

12 hours of upper-division courses in geology, physical geography, biology, and/or meteorology or written permission of instructor; completion of all Level I and Level II General Studies

course requirements, senior standing

A senior-level capstone course for land use majors. Students will use field geologic techniques which are essential to environmental site analysis. These techniques will include preparation of various maps, use of geologic surveying instruments and field methods of description of earth materials. Students will prepare and present final reports from these exercises. (Senior Experience)

FINANCE

FIN 2250-3 **Personal Money Management (3 + 0)** (This course is not approved for guaranteed transfer

to other Colorado colleges and universities.)

Prerequisite: Sophomore standing and non-business majors

This survey course is oriented to the identification and solution of personal financial problems. The subject matter ranges from the determination of one's financial condition to estate planning, including controlling credit usage, making major purchase decisions, buying insurance, making investments, and planning retirement. (Ćredit will be granted for either FIN 2250 or FIN 3150, not both. Business majors cannot take FIN 2250.) (General Studies-Level II-Social Sciences)

FIN 3010-3 Financial Markets and Institutions (3 + 0)

ACC 2010 with a grade of "C" or better, ECO 2010, ECO 2020 and at least junior standing Prerequisite:

This course provides a framework for understanding our financial environment, including markets, institutions, and securities. Each type of market and how financial institutions use

it, its internationalization, and recent events that have affected it, are studied.

FIN 3100-3 International Money and Finance (3 + 0)

ECO 2010, ECO 2020 and at least junior standing Prerequisites:

This course covers the basics of the foreign exchange market, the balance of payments, parity conditions in international finance, foreign exchange risk and forecasting, the financing of international activities, and international capital flows. The course will focus on the financial management of the multinational firm.

FIN 3150-3 Personal Financial Planning (3 + 0)

business major or minor with at least junior standing Prerequisite:

This course is an introduction to the field of personal financial planning for business students. The student will study money management, investments, insurance, employee benefits, retirement planning, and estate planning, as they relate to individual and family financial planning. (Credit will be granted only for FIN 2250 or FIN 3150. Business students should take FIN 3150.)

FIN 3300-3 Managerial Finance (3 + 0)

ACC 2010 with a grade of "C" or better, ECO 2010, ECO 2020, MTH 1320 and Junior or Prerequisites: Senior standing.

This is a study of the dynamic environment of financial management using the following analytical skills: financial analysis and forecasting, time value of money, security valuation, capital budgeting, capital structure, the cost of capital, and working capital management.

FIN 3320-3 Entrepreneurial Finance (3 + 0)

Prerequisite: at least junior standing

The course is designed to acquaint students with the basic concepts of obtaining funds for the start-up and financing the continued growth of the firm. The course covers start-up financing, growth capital, daily financial management, valuation and strategic financial planning.

FIN 3420-3 Principles of Insurance (3 + 0)

Prerequisite: at least junior standing

This course explores the underlying principles of insurance, and the need for insurance in a progressive, dynamic society. It includes an introductory examination of insurable risks, uses of insurance, as well as a study of the important coverages that are currently available.

FIN 3450-3 Retirement Planning and Employee Benefits (3 + 0)

Prerequisite: at least junior standing

This is a study of the principles of retirement planning and employee benefits, including the determination of financial needs at retirement. The various employee benefits and retirement plans for employees and self-employed persons will be studied.

plans for employees and self-employed persons will be studied.

FIN 3600-3 Investments (3 + 0)

Prerequisites: FIN 3300 with a grade of "C" or better and at least junior standing

This course is a survey of the organization and regulation of security markets; security analysis and valuation; and principles of portfolio management from the viewpoint of the

individual investor.

FIN 3800-3 Real Estate Practice and Law (3 + 0)

Prerequisite: at least junior standing

This course surveys the principles and practices of real estate. Subject areas treated include the nature and description of real estate, real property interests and ownership, finance,

appraisal, contract and agency law, and real estate investment.

FIN 3810-3 Advanced Real Estate Practice and Law (3 + 0)

Prerequisites: FIN 3800 with a grade of "C" or better and at least junior standing

This course builds upon the material covered in FIN 380 by providing expanded, in-depth coverage of the topics as well as introducing some new topics to provide a broad coverage of

the field of Real Estate and to prepare the student for licensing examinations.

FIN 3830-3 Applications in Real Estate Practice (3 + 0)

Prerequisites: FIN 3800 with a grade of "C" or better and at least junior standing

This course integrates the material introduced in FIN 3800 with an in depth study of real estate closings, records and trust accounts, and current legal issues to provide the student with a practical orientation to the applications of real estate laws, rules, and standards of

practice.

FIN 3850-3 Intermediate Finance (3 + 0)

Prerequisites: FIN 3300 with a grade of "C" or better, and at least junior standing

This is an advanced, integrated study of investment risks and returns, the development of modern portfolio theory, financial statements, capital budgeting, and working capital issues. Use of financial calculators and Excel spreadsheets is required to analyze financial problems.

FIN 4200-3 Financial Modeling with Spreadsheets (3 + 0)

Prerequisites: FIN 3300, FIN 3600. FIN 3850. CIS 2010. CIS 2300 with a grade of "C" or better in all except

CIS 2010 and senior standing

This course provides the student with a strong set of financial analysis skills to use in building complex financial models utilizing electronic spreadsheets. The topics covered include building financial statements, analysis of financial statements, modern portfolio theory, capital budgeting, regression analysis, and both linear and non-linear programming for

financial applications.

FIN 4400-3 Estate Planning (3 + 0)

Prerequisite: business major or minor with at least junior standing

The course provides the student with the basic concepts of estate planning and importance in overall financial planning. The course covers the tools and techniques of estate planning so as to arrange the efficient future wealth transfers to maximize the financial well being of both

the individual and recipients of the wealth transfer.

FIN 4500-3 Analysis of Financial Statements (3 + 0)

Prerequisites: FIN 3850 with a grade of "C" or better and senior standing

An in-depth study of current financial reporting practices; analysis and interpretation of cor-

porate financial statements, utilizing text and selected cases.

Security Analysis and Portfolio Management (3+0)FIN 4600-3

FIN 3600, FIN 3850 with a grade of "C" or better in both and senior standing Prerequisites:

This course is designed to provide students with a comprehensive understanding of security analysis and portfolio management. The focus of the course is on selecting the appropriate securities and managing the portfolio to meet the investor objectives. This is the capstone

and assessment course for finance majors with a concentration in financial services.

FIN 4700-3 Special Topics in Finance (Variable Title) (3 + 0)

Prerequisites: senior standing and approval of the Finance Department chair

This is an in-depth study of selected topics in finance not available otherwise in the curriculum. Typically, this course will focus on current issues or developments in finance, and the

content will vary. This course may be repeated for credit under different topics.

FIN 4750-3 Seminar in Personal Financial Planning (3 + 0)

FIN 3420, FIN 3450, FIN 3600, ACC 3090 or ACC 4100 Prerequisities:

This is a senior-level integrative course for finance majors concentrating in personal financial planning. It brings together the various aspects of financial planning with heavy emphasis on

case studies.

FIN 4950-3 Financial Strategies and Policies (3 + 0)

Prerequisites: FIN 3600, FIN 3850 with a grade of "C" or better in both, senior standing, and completion of

all business core courses except MGT 4950

This course takes an integrated case study approach to financial management. Emphasis is on presentation of analyses and recommendations for strategies and policies. This is the capstone and assessment course for finance majors with a concentration in general finance. Proficiency in personal computer and word processing and spreadsheet applications is necessary.

FRENCH

FRE 1010-5 Elementary French I (5 + 0)

A beginner's course, with emphasis on pronunciation, speaking, and understanding, supple-

mented by grammar, reading, and writing.

Elementary French II (5 + 0) (This course is not approved for guaranteed transfer to other FRE 1020-5

Colorado colleges and universities)

Prerequisite: FRE 1010 or one or two years of high school French

This course is a continuation of FRE 1010. (General Studies—Level I, Communications)

International French Year I (1-15+0)FRE 1800-1-15

This is a variable-credit course, designed for first-year students learning French in a studyabroad setting. Recognizes approved study-abroad educational experience in French speak-

ing, comprehension, reading, and writing.

FRE 2010-3 Intermediate French I (3 + 0)

Prerequisites: FRE 1010, FRE 1020 or equivalent

The course is a first-semester course of a two-semester intermediate French language sequence specifically designed to strengthen grammatical skills and proficiency in speaking, understanding, reading, and writing. It introduces students to a sampling of social, cultural, and literary topics central to the understanding of France and French-speaking people.

FRE 2020-3 Intermediate French II (3 + 0)

Prerequisites: FRE 1010, FRE 1020, FRE 2010 or equivalent

This course is a continuation of FRE 2010, designed to continue strengthening grammatical skills and proficiency in speaking, understanding, reading, and writing. It presents further examples of social and cultural topics central to an understanding of France and French-

speaking people.

FRE 2110-3 French Reading and Conversation (3 + 0)

Prerequisite: one year of college French or equivalent, or permission of instructor

This course helps to build oral proficiency at intermediate and advanced levels through a variety of personalized interactional activities that are based on readings appropriate to each

stage of linguistic development.

FRE 2800-1-15 International French Year II (1-15+0)

one year of college French or equivalent Prerequisite:

This is a variable-credit course that recognizes second-year study of French language and cul-

ture in an approved study-abroad setting.

FRE 3010-3 Introduction to Advanced French Studies (3 + 0)

FRE 2010, FRE 2020, or permission of instructor Prerequisites:

This transitional course is designed to develop those critical, linguistic, and analytical skills required to pursue French studies at the advanced level. The texts studied are chosen to

acquaint students with French sociocultural and literary issues.

FRE 3050-3 Cultural Crossroads: France, Germany, Spain (3 + 0) (GER 3050, MDL 3050, SPA 3050)

Prerequisite: ENG 1020

This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational

social welfare of its member nations. Students can get credit for only one prefix.

FRE 3110-3 Survey of French Literature I (3 + 0)

Prerequisites: FRE 3010 or permission of instructor, satisfaction of Level I General Studies course requirements

This introduction to French literature from the Middle Ages to the Enlightenment gives an insight into French literary, historical, and cultural development through selected reading

and discussion. (General Studies—Level II, Arts and Letters)

FRE 3120-3 Survey of French Literature II (3 + 0)

Prerequisites: FRE 3010 or permission of instructor, satisfaction of Level I General Studies course requirements

This introduction to 19th- and 20th-century French literature emphasizes the evolution of literary style and content from Romanticism to contemporary literary schools. Readings and

discussion are in French. (General Studies—Level II, Arts and Letters)

FRE 3150-3 French Phonetics: Theory and Practice (3 + 0)

Prerequisite: two years of college French or equivalent, or permission of instructor

This course covers the essential facts of French phonology. It is aimed at improving students'

pronunciation and articulation and introducing them to the field of linguistics.

FRE 3310-3 Advanced French Composition and Grammar (3 + 0)

Prerequisites: FRE 2010, FRE 2020 or equivalent, or permission of instructor

This course is designed to reinforce and further develop writing skills, thus enabling the stu-

dent to combine accuracy with imagination and inventiveness in writing French.

FRE 3320-3 Advanced Conversation (3 + 0)

FRE 2010 or FRE 2020 or equivalent, or permission of instructor Prerequisite:

This course is designed to broaden the student's skills in French conversation. The student will learn more advanced structures of the language, as well as other aspects of grammar and

idiomatic expressions.

FRE 3550-3 French Historical Perspectives (3 + 0)

FRE 3010 or permission of instructor, & satisfaction of Level I General Studies course requirements Prerequisites:

This survey chronologically presents major political, societal, and cultural movements that have molded France and the French throughout history. (General Studies-Level II, Historical)

FRE 3560-3 **Contemporary Socio-Cultural Issues (3 + 0)**

FRE 3010 or permission of instructor, & satisfaction of Level I General Studies course requirements Prerequisites:

This course provides in-depth presentations and analysis of recent social, cultural, political, and economic issues important to an understanding of contemporary France. (General

Studies—Level II, Social Sciences)

FRE 3800-1-15 International Advanced French (1-15 + 0)

Prerequisite: at least junior standing in French or equivalent

This course recognizes upper-division study in language, culture, and literature in a studyabroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in French.

Modern French Theater (3 + 0) FRE 4520-3

three years of college French or equivalent, or permission of instructor, satisfaction of all Level Prerequisites:

I and Level II General Studies course requirements, senior standing

This is a sampling of the French dramatists who have not only contributed to literary development, but who also have had an impact on society and culture. Theater analysis techniques will also be stressed. (Senior Experience)

FRE 4530-3 The French Novel (3 + 0)

three years of college French or equivalent or permission of instructor, satisfaction of all Level Prerequisites:

I and Level II General Studies course requirements, senior standing

This is a sampling of 19th- and 20th-century French novels that will be studied in depth using

several literary analysis techniques. (Senior Experience)

FRE 4540-3 Literature, Culture and Translation(3 + 0)

FRE 3310 and/or senior standing Prerequisites:

This course provides written and conversational analysis of readings taken from French and francophone literature and texts dealing with historical and cultural issues. Students will

learn translation techniques and will translate parts of the texts studied.

Senior Seminar in French Studies (3 + 0) FRE 4750-3

senior standing, at least two courses at the FRE 3000-level Prerequisites:

This is an intense thematic seminar on either a literary or cultural topic emphasizing a com-

parative study in the former and a multidisciplinary approach to the latter.

GEOGRAPHY

World Regional Geography (3 + 0) GEG 1000-3

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests
This course presents the study of the formation, behavior, and interaction of social, political, cultural, and economic regions throughout the world. (General Studies-Level II, Social

Sciences)(GT-SS2)

GEG 1100-3 Introduction to Physical Geography (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests
This survey course is designed to provide an understanding of all the elements of the physical environment. The course emphasizes the four spheres: the atmosphere (weather and climate), the lithosphere (soils, geology, and landforms), the hydrosphere (oceans, streams, and groundwater), and the biosphere (vegetation and animals). (General Studies-Level II,

Natural Science) (GT-SC2)

GEG 1120-1 Orienteering (0 + 2)

This course familiarizes students with the reading and interpretation of topographic maps and the use of the compass. Orienteering exercises are conducted in the field.

GEG 1220-2 Map Use (1+2)

This is an introductory course providing basic information on the use and interpretation of maps, map projections, map scale, map symbols, remote sensing, and Geographical Information Systems.

GEG 1300-3 Introduction to Human Geography (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

> This course is an introduction to geographic perspectives, concepts, and methods as they apply to the study of human activities. Special emphasis is placed on patterns of human distribution, adjustments to the natural environment, land use practices, and culture traits.

(General Studies—Level II, Social Sciences)(GT-SS2)

GEG 1610-1 Introduction to Planning (1 + 0)

This course provides an overview of the role of planning in land use, different types of planning processes, public and private sector actors, skills required of planners, and planning documents and maps.

GEG 1920-3 Concepts and Connections in Geography (2 + 2)

Prerequisite:

minimum performance standard scores on reading, writing, and mathematics preassessment tests This course will cover basic concepts and themes of geography as well as the primary division of the discipline. Topics include major world regions and the interconnections between them, the geography of human activities, physical geography, and human interaction with the environment. Basic geographic tools, methodologies and theories are used as keys to understanding past, present, and future events in the world. The region of the Middle East will be used to demonstrate relationships between physical and human geography and resource development. (General Studies–Level II, Social Sciences)

GEG 2020-3 Geography of Colorado (3 + 0)

Prerequisite:

minimum performance standard scores on reading, writing and mathematics preassessment placement tests

This course presents the study of the physical, economic, and cultural features of Colorado. These features include climate, landforms, history, water resources, energy and minerals, mining, soil, natural vegetation, agriculture, population characteristics, the economy, current issues, as well as their interactions, and the overall geographic setting. (General Studies—Level II, Social Sciences)(GT-SS2)

GEG 2100-2 Geography of Latin America (2 + 0)

Prerequisite:

a course in geography or permission of the instructor

This course studies the physical, political, and economic geography of Latin American countries. The course emphasizes contemporary land-use patterns and use of natural resources.

GEG 2200-3 Geography of the United States (3 + 0)

Prerequisite:

six hours of earth science courses

This course is a survey of the geography of the U.S., including an overview of the physical characteristics, landforms, climate, soil, vegetation, and natural resources. Regions of the U.S. are studied, including the distribution of population, agriculture, industry, transportation, and culture. Geographic problems and issues are raised.

GEG 2300-3 Geographic Analysis of Social Issues (3 + 0)

Prerequisite:

GEG 1300

This course is a geographic analysis of current social issues. Topics include urban spatial problems, such as crowding and crime, drugs and gangs, population growth, environmental perception, resource use, and culturally based land-use patterns. The administration of space, boundaries, territoriality, and spatial learning are discussed.

GEG 3000-3 Historical Geography of the U.S. (3 + 0)

Prerequisites:

six hours of geography or permission of instructor; GEG 1300, GEG 2200, or HIS 1210 recommended

This course examines the unique interrelationships between geography and history. Topics covered include frontiers and boundaries, settlement patterns, environmental perception, sequent occupancy, changing land-use practices, migration, and urban growth. Further, the course addresses the interrelationships between different physical environments and cultural landscapes.

GEG 3300-3 Land Use, Culture and Conflict (3 + 0) (NAS 3300, PSC 3300)

Prerequisites:

ENV 1400 or NAS 1000 or PSC 1010 and at least junior standing

This course is designed to introduce students to theories, approaches and controversies concerning use of land and resources on Indian Reservations. Reading and discussion will be directed toward questions related to differing views on land use and resources, how modernization impacts traditional settings, as well as treaties and governmental policies that govern Indian land. Case studies which illustrate current conflict/resolution issues between Native Americans and other actors such as federal, state and local governments will be examined. Credit will be granted for only one prefix. (General Studies - Level II, Social Science; Multicultural)

GEG 3360-3 Geography of Economic Activity (3 + 0)

Prerequisites:

GEG 1000 or GEG 1300 plus six additional hours of geography and MTH 1210. ECO 2010 or ECO 2020 recommended

This course investigates the "economic landscape" and analyzes global patterns of spatial interdependence in a systems framework. Spatial economic models are examined through case studies and class exercises. The relationships between human activity and land-use patterns are examined in a world/regional context.

GEG 3520-2-3 Regional Geography: Variable Topics (2-3 + 0)

Prerequisite: six hours of earth science courses

Specific regions of the world will be selected for in-depth study. Topics will include physical and cultural geography, demographics, economic activity, urbanization, political geography and environmental issues. The course may be repeated for credit as a different region is studied.

GEG 3600-3 Urban Geography (3 + 0) Prerequisites: GEG 1000, GEG 1300

This course examines theories of urban development and factors that affect urbanization, such as demographic change, annexation, zoning, and infrastructure development. Models of urban land use are examined in the context of cities in the United States. Students learn how to prepare and analyze census-tract maps.

GEG 3610-3 Principles of Land Use Planning (3 + 0)

Prerequisites: six hours of geography, GIS 2250 recommended

In this course students learn basic land-use planning concepts and how to analyze land-use patterns, interpret land-use maps, and analyze existing land-use plans. Further, students learn how to collect relevant data, prepare a comprehensive land-use plan, and predict future planning issues. Special attention is paid to Geographic Information Systems (GIS) in land-use planning.

GEG 3630-3 Transportation Planning and Land Use (3 + 0)

Prerequisites: GEG 3610, six additional hours of geography

This course is an analysis of transportation systems as they relate to other types of land use. Transportation networks are examined in terms of types, patterns, and densities. Consideration is given to alternative transportation systems as they relate to energy savings, pollution prevention, and the reduction of congestion.

GEG 3920-2-6 Directed Study in Land Use (0 + 4-12)

Prerequisites: 15 hours in earth science courses and approval of instructor and department chair

This course provides an opportunity for upper-division students with a strong background in earth science to pursue study in a specific topic of interest and value. The course requires permission of the instructor and chair of the Earth and Atmospheric Sciences Department and frequent meetings between student and instructor.

GEG 4610-3 Urban and Regional Planning (3 + 0)

Prerequisites: GEG 3600, GEG 3610 or equivalent

This course studies the philosophy and scope of urban and regional planning and the principles and factors of planning and their interrelationships.

GEG 4620-3 Residential Land Use Patterns (3 + 0)

Prerequisite: GEG 3600 or GEG 3610 or six hours of urban studies courses

This course examines spatial patterns of urban growth, factors that affect housing, the role of nonprofit developers in the current housing market, as well as theories that explain the residential mosaic of North American cities. It includes an analysis of current housing trends as well as the housing types, densities, patterns and geographic distribution, as well as the interrelationships with other aspects of the urban environment, including infrastructure.

GEG 4640-3 Recreational Land Use Patterns (3 + 0)

Prerequisite: GEG 3610 or permission of instructor

This course considers various types of recreation space, including greenbelts; open space; wilderness areas; and national, state and local parks. It relates recreational land to the land-use planning process, as well as the environmental impacts of recreation.

GEG 4710-3 Legal Aspects of Land Use (3 + 0)

Prerequisite: ENV 4010 or GEG 3610 or permission of instructor

This course studies the laws, ordinances and regulations related to land use, as well as the role of federal, state and local government in regulating and controlling land use. The course makes use of case studies and local issues.

GEG 4950-2-15 Internship in Land Use (0 + 6-45)

Prerequisites: Land Use major with upper division standing plus 12 upper division hours of earth science

courses and permission of the chair of the earth and atmospheric sciences department This course provides an on-the-job internship experience with a land-use-related company or agency. The experience must be done under qualified supervision and under the direction of an earth and atmospheric sciences faculty member.

GEOLOGY

GEL 1010-4 General Geology (3 + 2)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course introduces the basic theories, concepts, and assumptions used in geology, utilizing both lecture and laboratory components. It includes internal and external processes, their products, and their effects on the environment. Students will learn to identify common rocks and minerals. A field trip is required. (General Studies—Level II, Natural Science)(GT-SC1)

GEL 1020-3 Geology of Colorado (3 + 0)

Prerequisite: minimum performance-standard scores on reading, writing, and mathematics preassessment

placement tests

This course introduces the basic theories, concepts, and assumptions used in geology, focusing on the state of Colorado. The major geological provinces; mineral resources; common rock-forming minerals; and sedimentary, igneous, and metamorphic rocks of Colorado are covered. One field trip required. (General Studies—Level II, Natural Science) (GT-SC2)

GEL 1030-4 Historical Geology (3 + 2)

Prerequisite: GEL 1010 or permission of instructor

This course presents the origin and history of the Earth as well as the evolution of its life, based on the rock and fossil record. The course also reviews the changing geography of the Earth through geologic time, emphasizing the theory of plate tectonics. A field trip is

required. (General Studies-Level II, Natural Science)

GEL 1150-3 Oceanography (3 + 0)

Prerequisite: minimum performance-standard scores on reading, writing, and mathematics preassessment

placement tests

This introductory course studies the world's oceans, including historical explorations, physical and biological processes, energy sources, ocean resources, marine provinces, and geology of ocean basins. The course emphasizes global distribution, use, and control of ocean resources, and ocean pollution. (General Studies—Level II, Natural Science) (GT-SC2)

GEL 1510-1 Geology of Red Rocks Park and Vicinity (1+0)

Prerequisite: GEL 1010 recommended

This course examines the geology of Red Rocks Park and vicinity, including rocks formed over a period of approximately two billion years. The geologic history includes Colorado's famous "disappearing" mountain range (the Ancestral Rocky Mountains), evidence of ancient oceans and deserts, dinosaur bones and tracks and the uplift of the modern-day Rocky Mountains. Note: Students cannot take both GEL 1510 and GEL 3510 for credit. (General Studies—Level

II, Natural Science)

GEL 1520-2 Garden of the Gods—Front Range Geology (2 + 0)

Prerequisite: GEL 1010 recommended

This course examines the geology along the Front Range from Boulder to Colorado Springs through rock exposures covering a span of approximately two billion years. Along with basic concepts of geology, the formations exposed along the Front Range, including their ages, rock types, origins and economic products, are examined within a context of geologic history. Note: Students cannot take both GEL 1520 and GEL 3520 for credit. (General Studies—Level II, Natural Science)

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GEL 1530-2 Geology of the Colorado Plateau (2 + 0)

Prerequisites: None; GEL 1010, GEL 1510, GEL 1520 and/or GEL 1560 are recommended

This course examines the geology of the eastern Colorado Plateau, including the geology of the Colorado National Monument, Arches National Park and Southern Canyonlands National Parks. Along with basic concepts of geology, the formations exposed in the eastern Colorado Plateau, including their ages, rock types and origins, are examined. Historical geology and geomorphology come to life in this beautiful, desolate, arid country. Students must be in good physical condition because strenuous hiking is involved, and students must have prior camping experience. Note: Students cannot take both GEL 1530 and GEL 3530 for credit.

GEL 1550-2

Geology of the Great Sand Dunes National Monument (2 + 0)

Prerequisite:

GEL 1010 recommended This course emphasizes the processes and landforms associated with the eolian (wind) and desert environments at the Great Sand Dunes National Monument, located in the San Luis

Valley between the San Juan and Sangre de Cristo Mountains. Investigations of the dune fields allow students to identify various types of dunes, as well as damage related to desertification. The relationships of sand source areas, cross-bedding and transport directions are

investigated. Note: Students cannot take both GEL 1550 and GEL 3550 for credit.

GEL 2700-3

Introduction to Petroleum Technology (3 + 0)

Prerequisite:

GEL 1010 This course looks at the oil industry from the conception of a prospect through to drilling, testing, completion, transportation, marketing, refining, and sales. The course includes a consideration of the role petroleum products play in society, the future of petroleum, and the likely nonconventional replacements of petroleum.

GEL 2710-3

Computer Applications in Earth Sciences (2 + 2)

Prerequisites:

GEG 1220, GEL 1010, and CSS 1010 (or CMS 1010), or permission of instructor

This course considers the theory behind contouring clustered subsurface data with the computer and introduces several commonly used mapping and contouring programs. In addition, there is discussion of well log analysis and using borehole data to produce both columnar and stratigraphic sections and subsurface cross sections.

GEL 3050-4

Mineralogy and Petrology (3 + 2)

GEL 1010 Prerequisite:

This course examines minerals and rocks that make up the Earth's crust, including their origin, occurrence and identification. In addition to the recognition of hand specimens, this course utilizes the petrographic microscope and X-ray crystallography to identify minerals and rocks.

GEL 3060-4

Stratigraphy and Structure (3 + 2)

Prerequisite:

GEL 1010; GEL 3050 recommended

This course analyzes vertical and horizontal stratigraphic and structural relationships within the Earth's crust. The stratigraphic portion of the course emphasizes transgressive and regressive sequences and unconformity boundaries (sequence stratigraphy) while the structural portion emphasizes three-dimensional relationships found in folded and faulted rocks. Field trips are required.

GEL 3120-4

Advanced Geomorphology (3 + 2)

Prerequisite:

GEL 3060 or permission of instructor

This course is a detailed analysis of the Earth's landforms, including their origins and sequential changes due to internal and surficial processes. Maps and aerial photographs are extensively used for geomorphic interpretations. Field trips are required.

GEL 3150-3

Prerequisites:

Hydrogeology (2 + 2) GEL 1010, MTH 1110 and MTH 1210 recommended

This course is a practical approach to the study of groundwater flow, with emphasis given to its chemistry, mode of migration, pollution, and relationship to the geologic environment. The course includes methods of exploration, well-log analysis, numerous laboratory exercises and field sampling. A field trip is required.

GEL 3420-4

Soil Resources (3 + 2)

Prerequisites:

GEL 3050 and GEL 3120 or GEG 1240, or permission of instructor

This course analyzes the materials and processes that combine to produce various soil types. Soil types are examined in relationship to climate, landforms, vegetation, and geology, as well as in relationship to land-use patterns. Required field trips investigate soil mapping techniques.

GEL 3440-4 Prerequisites:

Energy and Mineral Resources (3 + 2)

ENV 1400 and GEL 3050, or permission of instructor

This course investigates mineral resources and reserves that serve our industrial society. It includes a detailed examination of the origin, physical characteristics, and distribution of mineral resources, including metals and nonmetals, and energy resources, including fossil fuels and alternative energy resources. Field trips are required.

GEL 3510-1 Advanced Geology of Red Rocks Park and Vicinity (1 + 0)

Prerequisite: nine hours of geography or geology or permission of instructor

This course requires an analytical approach to the geology of Red Rocks Park and vicinity, including rocks formed over a period of approximately two billion years. The geologic history includes Colorado's famous "disappearing" mountain range (the Ancestral Rocky Mountains), evidence of ancient oceans and deserts, dinosaur bones and tracks and the uplift of the modern-day Rocky Mountains. Note: Students cannot take both GEL 1510 and GEL 3510 for

credit. (General Studies—Level II, Natural Sciences)

GEL 3520-2 Advanced Garden of the Gods—Front Range Geology (2 + 0)

Prerequisite: nine hours of geography or geology or permission of instructor

This course requires an analytical approach to the geology along the Front Range from Boulder to Colorado Springs through rock exposures covering a span of approximately two billion years. Along with basic concepts of geology, the formations exposed along the Front Range, including their age, rock types, origins and economic products, are analyzed within a context of geologic history. Note: Students cannot take both GEL 1520 and GEL 3520 for credit.

(General Studies—Level II, Natural Science)

GEL 3530-2 Advanced Geology of the Colorado Plateau (2 + 0)

Prerequisites: nine hours of geography or geology or permission of instructor; GEL 3510, GEL 3520 and/or

GEL 3560 recommended

This course requires an analytical approach to the geology of the eastern Colorado Plateau, including the geology of the Colorado National Monument, Arches National Park, and Northern and Southern Canyonlands National Parks. Along with basic concepts of geology, the formations exposed in the eastern Colorado Plateau, including their ages, rock types and origins, are analyzed. Historical geology and geomorphology come to life in this beautiful, desolate, arid country. Students must be in good physical condition because strenuous hiking is involved, and students must have prior camping experience. Note: Students cannot take

both GEL 1530 and GEL 3530 for credit.

GEL 3550-2 Advanced Geology of the Great Sand Dunes National Monument (2 + 0)

Prerequisite: nine hours of geography or geology or permission of instructor

This course analyzes the processes and landforms associated with the eolian (wind) and desert environments at the Great Sand Dunes National Monument, located in the San Luis Valley between the San Juan and Sangre de Cristo Mountains. Analysis of the dune fields allows students to identify various type of dunes, as well as damage related to desertification. The relationships of sand source areas, cross-bedding and transport directions are analyzed. Note: Students cannot take both GEL 1550 and GEL 3550 for credit.

GEL 3700-3 Integrated Geotechnology (2 + 2)

Prerequisites: GEL 2700 and GEL 2710, or permission of instructor

This course is a continuation of GEL 2700, Introduction to Petroleum Technology, and it emphasizes the integration of the data and methods of petroleum geology and geophysics, land and leasing, and engineering. Students will receive practical experience in gathering and organizing disparate data sets, and in making basic interpretations in the form of reports, maps, and cross sections. The goal is for the student to gain basic understanding of the needs and responsibilities of the professionals that interact with geologists in a corporate and small-

company environment.

GEL 3710-3 Earth Sciences Data Management (2 + 2)

Prerequisite: GEL 2710 or permission of instructor

This course defines the special nature of geological data and shows the various ways to produce databases for information management as well as for extracting mapping and other analysis data. The emphasis is on using commonly available computer data management programs.

GEL 3920-2-6 Directed Study in Geology (0 + 4-12)

Prerequisites: 15 hours in geology; permission of instructor and department chair

This course provides an opportunity for upper-division students with a strong background in geology to pursue study in a specific topic of interest and value. The course requires permission of the instructor and chair of the Earth and Atmospheric Sciences Department and

frequent meetings between student and instructor.

GEL 4150-3 Hydrology (2+2)

Prerequisite: GEL 3150

This course examines surface and subsurface waters with respect to water flow, drainage systems, storage, pollution and environmental relationships. The hydrologic cycle is studied with respect to surface water distribution. This course uses knowledge gained from GEL 3150 (Hydrocalogy) in practical amplications.

(Hydrogeology) in practical applications.

GEL 4700-3 Subsurface Geology (3 + 0)

GEL 3700 and GEL 3710, or permission of instructor Prerequisites:

This course guides students through geological interpretation using field observations, well logs, samples, cores, seismic sections, and other indirect methods. The course then teaches the students how to present the interpretations in a meaningful way. Well log analysis and subsurface mapping use computer methods where they are appropriate.

GEL 4950-2-15 Internship in Geology (0 + 6-45)

land use major with geology emphasis with upper division standing plus 12 upper-division Prerequisites:

hours in geology, permission of the chair of the earth and atmospheric science department This course provides an on-the-job internship experience with a geology-related company or agency. The experience must be done under qualified supervision and the auspices of an

earth and atmospheric sciences faculty member.

GERMAN

GER 1000-3 German for Travel I (3 + 0)

This course is designed to concentrate on basic conversational skills for travelers. It does not

fulfill the prerequisite requirements for any 2000-level course.

GER 1001-3 German for Travel II (3 + 0)

GER 1000 or equivalent or permission of instructor Prerequisite:

This course is a continuation of GER 1000 and includes modes of travel, hotel/restaurant operations, and etiquette in the world of travel and hospitality. It does not fulfill the prerequi-

site requirements for any 2000-level course.

GER 1010-5 Elementary German I (5 + 0)

This is an introductory course in German, including pronunciation, grammar, and reading, with emphasis on speaking and understanding.

GER 1020-5 Elementary German II (5 + 0) (This course is not approved for guaranteed transfer to other

Colorado colleges and universities)

GER 1010, or one or two years of high school German Prerequisite:

This is a continuation of GER 1010. (General Studies—Level I, Communications)

GER 1800-1-15 International German Year I (1-15+0)

This is a variable-credit course for first-year students learning German in a study-abroad set-

ting. It recognizes an approved study-abroad educational experience in German speaking,

comprehension, reading, and writing.

German Reading and Conversation (3+0) GER 2110-3

Prerequisite: one year of college German or equivalent or permission of instructor

This course prepares the student to read and to communicate with ease in German. It empha-

sizes vocabulary and idiomatic phrases used in everyday language.

GER 2120-3 German Civilization (3 + 0)

one year of college German or equivalent or permission of instructor Prerequisite:

This course emphasizes the broadening of reading and conversational skills. It introduces the

student to various aspects of German civilization, from its geography and history to its philo-

sophical and political thought, arts, music, and modern living.

German Vocabulary Building and Grammar (3 + 0)GER 2310-3

Prerequisite: one year of college German or equivalent or permission of instructor

This course is designed to strengthen the student's grammatical background by reinforcing old principles and introducing new, more advanced principles of grammar and

to increase vocabulary.

GER 2320-3 German Composition and Free Writing (3 + 0)

one year of college German or equivalent or permission of instructor Prerequisite:

This course is designed to strengthen the student's writing skills. It exposes the student to various topics of interest to today's college student. In addition to the textbook, informative films will be presented and articles from German newspapers and magazines will be used.

GER 2800-1-15 International German Year II (1-15 + 0)

Prerequisite: one year of college German or equivalent

This variable-credit course recognizes second-year study of German language and culture in

an approved study-abroad setting.

GER 3010-3 Third Year German Conversation (3 + 0)

Prerequisite: GER 2110 or 2120 or four years of high school German

This course strengthens conversational ability with more complicated idiomatic and structural elements, using techniques such as skits, debates, and small-group discussions to

improve fluency and broaden the scope of communication. Conducted in German.

GER 3050-3 Cultural Crossroads: France, Germany, Spain (3 + 0) (FRE 3050, MDL 3050, SPA 3050)

Prerequisite: ENG 1020

This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational

social welfare of its member nations. Students can get credit for only one prefix.

GER 3150-3 German Phonetics: Theory and Practice (3 + 0)

Prerequisite: two years of college German or equivalent or permission of instructor

This course covers improvement of pronunciation and speech habits based on an understanding of the phonetics of German. After an introduction to the basic speech mechanism through principles of linguistics, the course offers practice in pronunciation through the dec-

lamation of selected texts.

GER 3200-3 German Culture and Civilization (3 + 0)

Prerequisites: two years of college German or equivalent or permission of instructor and satisfaction of

Level I General Studies course requirements

This course is an advanced German conversational approach to the main cultural events that have shaped German lifestyles. Historical events, as well as modern German lifestyles of Germany, Austria, and Switzerland are discussed. The format is reading-discussion, conducted in German. Students are required to give oral presentations. (General Studies—Level II, Arts

and Letters)

GER 3210-3 Survey of German Literature I (3 + 0)

Prerequisite: two years of college German or equivalent or permission of instructor

This course provides an insight into German historical and cultural development through

selected readings in German literature, from its beginning to the 18th century.

GER 3220-3 Survey of German Literature II (3 + 0)

Prerequisite: two years of college German or equivalent or permission of instructor

This course covers the history of German literature of the 18th, 19th, and early 20th centuries, including selected readings of principle German authors, lectures on biography and criticism,

and recitation. Conducted in German.

GER 3230-3 Contemporary German Writers (3 + 0)

Prerequisite: two years of college German or equivalent or permission of instructor

After a rapid survey of philosophical, political, economic, and social backgrounds, this course emphasizes works of distinguished contemporary authors. Lectures on biography and criticism are interspersed as convenient. A term paper is assigned. Conducted in German.

GER 3300-3 Advanced German Grammar (3 + 0)

Prerequisites: GER 2310, 2320 or permission of instructor

This course is designed to prepare the student for the demands of the use of literary and scientific German at advanced levels. The student is led into an appreciation of the deeper structures of the

language and the functional aspects of grammar in communication.

GER 3400-3 German Business Culture (3 + 0)

Prerequisite: GER 2310 or permission of instructor

This course is for students who plan to do business with people in German-speaking countries. The course incorporates specialized language pertaining to marketing, banking, the structure of corporations, and the code of behavior in the business world as well as the social

protection of the gainfully employed; transportation; import; and export.

GER 3410-3 Translation Techniques for Scientific Materials (3 + 0)

Prerequisite: GER 2320 or permission of instructor

This course is designed for the understanding of writings in the field of science. Attention is given to the specialized vocabulary, idioms, and sentence structure in this field. Translations on up-to-date topics are from German into English, facilitating reading and comprehension.

GER 3800-1-15 International Advanced German (1-15 + 0)

Prerequisite: junior or senior standing in German or equivalent

This course recognizes upper-division study in language, culture, and literature in a studyabroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in German.

GER 4020-3 Advanced German Composition (3 + 0)

Prerequisite: three hours of third-year college German

This course is an advanced study of the application of vocabulary, idiomatic expressions, and grammatical structures necessary for effective written communication. It includes review and expansion of various grammatical topics, exercises on stylistics, and considerable expansion of the student's vocabulary. Conducted in German.

GER 4200-3 Major German Authors (3 + 0)

Prerequisites: nine hours of German above 1020 or permission of instructor, senior standing necessary if

used for Senior Experience requirement

The course traces in representative works the artistic and intellectual development of major German authors who have gained a place in world literature. Class periods will be devoted to historical background, biographies, group discussions and analysis. Class is conducted in German, requiring oral and written reports. (Senior Experience)

GER 4210-3 Advanced Conversation: Present-day Germany (3 + 0)

Prerequisite: three hours of third-year college German or permission of instructor

This course is designed to help the student develop an understanding of present-day Germany. Recent and current socioeconomic changes and political trends are emphasized. Articles in recent issues of a leading German periodical are used as basis for classroom discussion, student reports, and themes.

GER 4400-3 Advanced German Business Culture (3 + 0) Prerequisites: nine hours of German above 1020 or permi

nine hours of German above 1020 or permission of instructor, senior standing necessary if

used for Senior Experience requirement

The course focuses on business topics with specialized language pertaining to industry, marketing, finance, social welfare, the consumer in general and the environment. Class is conducted in German, requiring oral and written reports. (Senior Experience)

GER 4410-3 Advanced Translation Techniques (3 + 0)

Prerequisites: GER 3310 or permission of instructor, senior standing necessary if used for Senior Experience

requirement

This course practices the different translation techniques (from German to English and from English to German) in a variety of materials taken from economics, law, medicine, the fine arts, biographies, geography, history, and others. Attention is given to the unique tone of each document. (Senior Experience)

GEOGRAPHIC INFORMATION SYSTEMS

GIS 1710-2 Terrestrial Navigation (1 + 2)

This course is an introduction to the science of land navigation. Students will use celestial sights, maps and Global Positioning System (GPS) to locate positions in the field. There are required field exercises.

GIS 2250-3 Introduction to Geographic Information Systems (2 + 2)

Prerequisites: GEG 1220 and CSS 1010 (or CMS 1010) or permission of instructor

This is an introductory course that provides students with the basic theoretical, technical, and application knowledge of Geographic Information Systems (GIS). It introduces and provides direct experience with the techniques used to manipulate and display spatial data using GIS.

GIS 3210-4 Introduction to Cartography (2 + 4)

Prerequisite: GEG 1220

This course provides instruction in the use and interpretation of maps, as well as the tools and constructional techniques of maps. Students will construct a variety of maps at different map scales and projections and critique their effectiveness.

GIS 3220-3 Intermediate Cartography (1 + 4)

GIS 3210 Prerequisite:

This course emphasizes the production of monochromatic, multitone, thematic maps using scribing and photographic techniques. Alternative methods of representing relief features will be explored, including construction of physiographic block diagrams, pictorial maps,

and contour maps.

GIS 3250-3 Computer Cartography (2 + 2) Prerequisites: GIS 2250, GIS 3210 recommended

This class focuses on using and integrating a variety of computer graphic programs, geographic information systems, and Web authoring tools to produce map compositions and Web pages from various gathered digital data. Students will gain experience with finding data, data conversion, graphics generation, and Web development. The class explores the concept of cartographic visualization in the form of map animation and the production of 'soft copy' map projects to illustrate temporal geographic changes, virtual worlds, and three-

dimensional views of terrains and landscapes.

GIS 4840-3 Remote Sensing (3 + 0)

GEG 1220 and either GEG 1100, GEG 1240, or GEL 1010, and six hours of upper-division Prerequisites:

geography or geology courses or permission of instructor

This course, designed for geoscience students, provides a survey of remote sensing technologies, applications, and industry. The course exposes the student to the techniques of extracting relevant information from both hardcopy and digital imagery. The application of remote sensing techniques and technology to the fields of Land-Use Planning and Geographic Information Systems (GIS) is stressed. Introductions to the electromagnetic spectrum, energy sources, radiation principles, aerial cameras, electronic imaging, and various high-altitude and space-based collection systems provide the student with the initial building blocks to a thorough understanding of remote sensing.

GIS 4850-3 Advanced Geographic Information Systems (2 + 2)

Prerequisites: GIS 2250 plus upper division standing or permission of instructor

This course offers an opportunity for upper-division students with a solid background in the fundamentals of Geographic Information Systems (GIS) to apply the analytical capabilities of this technology to model real-world situations in support of decision making. Particular emphasis is given to the specific conditions, requirements, and processing considerations surrounding effective GIS modeling and decision making. Issues of design and development of

GIS and their implementation are discussed and analyzed.

GIS 4860-3 Applications of ARC/INFO to Natural Resources Management (1+4)

Prerequisite: GIS 2250

This course emphasizes the application of ARC/INFO and AML (ARC Macro Language) to

the management of natural resources.

GIS 4870-3 Spatial Databases Design, Implementation, and Management (2 + 2)

Prerequisites: GIS 2250 and GIS 4860

This is a course on the fundamentals of proper design, implementation and management of spatial databases. The logical and physical designs of a geographic database are studied in detail. Particular emphasis is given to the set of practical guidelines and considerations surrounding the design, implementation, and management of an effective and efficient spatial database. The theory and concepts are reinforced by demonstrations and hands-on exercises using popular commercial Geographic Information Systems (GIS) and Database Manage-

ment Systems (DBMS).

GIS 4890-3

Advanced GIS Laboratory (1 + 4) senior standing, GIS 4850, GIS 4860, and GIS 4870 or permission of instructor Prerequisites:

A senior-level capstone course for land use majors emphasizing Geographic Information Systems (GIS). Students will solve a natural resources related problem applying GIS technology. Students will prepare and present final reports for their projects. (Senior Experience)

HEALTH CARE MANAGEMENT

HCM 3010-3 Health Care Organization (3+0)

Prerequisite: at least junior standing or permission of instructor

This courses analyzes the organizational structure of the health care system in the U.S. The nature of health and health care delivery is assessed. Emphasis is placed on the interrelatedness of cultural, economic, political, technological, and social aspects of health care delivery, along with its services and management. Disease origins and epidemiology are explored.

HCM 3020-3

Management Principles in Health Care (3 + 0)

Pre/Corequisite: HCM 3010

This is a course that is designed to provide a general orientation to management practices in the field of health care. The focus is on management concepts, processes, and theoretical content considered necessary for persons who intend to practice in a health care management position. Emphasis is placed on the differences in management of health care from other commodities and the importance of patient care and ethical issues. Tradeoffs between patient care issues and financial accountability are addressed.

HCM 3030-3

Health Care Jurisprudence (3 + 0)

Pre/Corequisite:

HCM 3010 This course examines the legal and ethical issues involved in the management and delivery of health care services. Emphasis is placed on law as it pertains to medical negligence, malpractice/professional liability, medical records/information management, patient consent, confidentiality/privacy, patient rights/responsibilities, contracts, labor relations, and other current issues.

HCM 3300-3

Management Issues and Health Policy (3 + 0)

Pre/Corequisite: HCM 3010 and HCM 3020

This course is designed to discuss the role of the health care manager in health care planning and strategic management. The political process as it relates to health policy development and implementation is explored. Emphasis is placed on how health care organizations adapt in a rapidly changing health care environment, particularly to regulatory and policy changes. Different sectors of the health care industry are discussed, such as hospitals, physician practices, long-term care, and governmental providers.

HCM 3500-3

Health Care Research Methods (3 + 0)

Pre/Corequisite:

HCM 3010 and statistics

This course examines the research process, research terminology and the role of research as a tool for understanding and improving financing, delivery and management in health care organizations. Students critique relevant research articles, explore sources of funding for research projects, and apply this knowledge to health care management projects.

HCM 4020-3

Human Resources Management in Health Care (3 + 0)

Pre/Corequisite:

HCM 3010 and 3020

This course is designed to analyze human resource management functions as they affect employee productivity and satisfaction in health service organizations. The course stresses functions, structure, laws, and principles that are significant in human resource management in health care organizations. Discussion emphasizes managing health care personnel shortages, usage of non-licensed assistive personnel, and other clinical personnel.

HCM 4030-3

Financial Management in Health Care (3+0)

Prerequisites:

HCM 3010, HCM 3020, ACC 2010, and a departmentally approved computer course; or

permission of instructor
This course surveys the organizational and operational aspects of fiscal analysis and control of health care institutions. Particular attention is given to the importance of third party payer and reimbursement issues. Emphasis is placed on the practical processes involved in the determination and analysis of tax status, revenues, costs, charges, inventory/materials management, working capital levels, budgets, and financial reporting.

HCM 4040-3

Health Care Economics (3 + 0)

Prerequisites:

HCM 3010 and ECO 2020

This course examines the major economic issues facing the health care industry. Emphasis is on the major elements of economic theory from a micro-economic perspective and how these theories are applied in the health care sector. Policies that enhance access to care and contain medical costs are explored. Other key issues include: analysis of medical care markets; demand for health, health care, and health insurance; supply of health care professionals; and the effects of societal and technological changes on the provision of health care services.

HCM 4500-2

Health Care Management Pre-Practicum (2 + 0)

Prerequisites:

all 3000-level HCM courses, HCM 4020, all required support courses. (This course must be taken the semester prior to HCM 4510.)

This is a preparatory course required of HCM majors prior to taking HCM 4510, the Health Care Management Practicum. Students are required to prepare a résumé, develop information interviewing skills, determine a health care placement agency and preceptor, and develop a proposal for a practicum project under faculty guidance.

HCM 4510-6 Health Care Management Practicum (1 + 10)

HCM 4500, plus either HCM 4030 or 4040 Prerequisites:

A capstone course designed to provide the student with the opportunity to integrate and operationalize previously learned health care management knowledge and skills. The student completes a health management project. The management area of study and the practicum setting are mutually agreed upon by the student, the faculty member, and the health facility preceptor. Practical management topics are emphasized in seminar sessions. (Senior Experience)

HEALTH EDUCATION SERVICES

HES 1050-3 Dynamics of Health (3 + 0)

minimum performance standard scores on reading, writing, and mathematics preassessment Prerequisite:

placement tests

An introductory course that investigates contemporary health issues. Emphasis is placed on those health issues that most frequently confront the college student. Subjects surveyed are current biological, psychological, sociological, and cultural factors that influence health in a changing society. Personal involvement in planning health improvement behaviors is encouraged through experiential learning. (General Studies—Level II, Social Sciences)

HES 1230-1 Medical Terminology (1+0)

This course introduces students to the basic Latin and Greek word parts that are combined to create medical terms and definitions of those terms. This will include terminology related to body structure, disease and treatment, and individual body systems. This course is a valuable introduction for any student interested in pursuing a career in a health-related field.

HES 2150-3 Complementary and Alternative Medical Therapies (3 + 0)

satisfaction of the Level I mathematics requirement, and either ENG 1010 or the Level I communications requirement and HES 1050 or permission of instructor Prerequisites:

This course is designed to acquaint students with a variety of nontraditional health and healing modalities in use in the United States today. It provides the basis for understanding the mechanisms and principles by which therapeutic responses are produced. The student will be required to develop and present a report related to a specific therapeutic modality. (General Studies—Level II, Natural Science)

HES 2180-3 AIDS: Acquired Immune Deficiency Syndrome (3 + 0) (This course is not approved for

guaranteed transfer to other Colorado colleges and universities)

satisfaction of the Level I math requirement and either ENG 1010 or the Level I communica-Prerequisite:

tions requirement

This course is designed to acquaint students with the dynamics surrounding HIV disease. It provides a forum to discuss the biological, psychological, social, cultural, economical, ethical, legal, and political ramifications of HIV disease. (General Studies—Level II, Social Sciences)

HES 2750-3 Holistic Health (3 + 0)

Holistic health is the view that health is a complex combination of mind, body and spirit, and emotions. This course explores biological, behavioral, social, and spiritual factors in health, the research supporting a holistic perspective, and practical application of these to the individual.

Therapeutic Touch (3 + 0) HES 3050-3

HES 2150 or permission of instructor Prerequisite:

This course will explore the scientific, theoretical and clinical foundations of therapeutic touch. Contemporary research findings will be presented and potential research designs will be identified. The course will blend both didactic and experiential learning into a balanced, grounded approach to this new version of an ancient caring and healing art.

HES 3070-3 Parental Health Care Issues (3 + 0)

Prerequisite: PSY 3250

This course is designed to prepare the student for providing anticipatory guidance to parents in promoting the biological, psychological, and social health of their children. Emphasis is placed on health maintenance and illness/injury prevention. Consideration is given to the management of health problems and available resources.

HES 3170-3 Introduction to Homeopathy (3 + 0)

Prerequisite: HES 2150 or permission of instructor

This course is designed to give the student an overview of homeopathy. The course will include the history, laws and principles, and use of homeopathy in the current health care system. Students will be introduced to various homeopathic remedies and their uses. Contemporary research findings will be presented and potential research designs will be identified.

HES 3310-3 Introduction to Traditional Chinese Medicine (3 + 0)

HES 2150 or HPL 1880 or permission of instructor Prerequisite:

This course provides the basis for understanding the mechanisms and principles by which traditional Chinese medicine is practiced. The students will explore different therapeutic modalities. Course content includes traditional Chinese philosophy as applied to treatment in acupuncture, herbal medicine, massage therapy, T'ai Chi and Qi-Gong. This course requires individuals to be open to learning about different philosophical beliefs upon which Chinese medicine is based.

HES 3350-3 Ayurveda Therapy I: Introduction to Basic Principles (3 + 0)

Prerequisite: HPL 1850 or permission of instructor

This course is an introduction to the basic principles underlying Ayurveda and yoga therapies. This course will cover the history of Ayurveda and yoga, Ashtanga yoga, Kleshas, breath and thought waves, subtle body theory, the stress response, chakra theory, Samkhya theory and Ayurveda, integrated yoga practice, tridosha theory, assessing vikriti, agni, ojas and prakriti, and daily and seasonal regimens for preventive health maintenance.

HES 3410-3 Botanical Pharmacology (3 + 0)

Pre/Corequisite: BIO 2320 or permission of instructor.

This course provides an in-depth exploration of commonly used plant medicines. The review of each botanical will include its history, botanical classification, chemical constituents, modern uses, the scientific research supporting those uses, contraindications, potential side effects, and drug interactions.

HES 3420-2 Research: Gerontology Critique (2 + 0)Prerequisite: a statistics course prior to or concurrent

Corequisite:

HES 3300

Students critique current gerontology research studies for applicability of the findings to the field of aging. Students identify researchable problems in the gerontology field and have experiential learning with steps of the research process.

HES 3450-3 Dynamics of Disease (3 + 0)

Prerequisites:

completion of all Level I General Studies requirements, and BIO 1000 or BIO 1080 and 1090,

or permission of instructor

This course is designed to acquaint students with the processes, dynamics, and treatments of disease. The student will explore potential and actual health problems. This course will not meet the pathophysiology requirement for nursing students. (General Studies—Level II, Natural Science)

HES 3600-3 Ethical Decision Making in Health Care (3 + 0)

major or minor in health care Prerequisite:

> This course is designed to assist students in health care to become familiar with ethical decision making models and adopt and apply ethical decicion making models in their

own clinical practice.

HES 3750-3 Clinical Pathophysiology I (3 + 0)

BIO 2320 or equivalent Prerequisite:

This course is designed to familiarize the student with the nature of pathophysiology using major conceptual areas, as it evolves from the incipient stage to full development. Pertinent bio-chemical and metabolic derangements are correlated with the cellular structure of the body by applying systems theory. The student should have background knowledge in normal anatomy and physiology.

HES 3810-3 Physiology of Aging for Non-Biology Majors (3 + 0) (BIO 3530)

BIO 1000 or equivalent, completion of all Level I General Studies course requirements or Prerequisites:

permission of instructor This course views aging from both the biological and the physiological perspectives. Theories on the biology of aging and cultural variations of aging will be explored. The concepts of continuity and change will be used to study the cellular and molecular events throughout the lifespan that lead to aging and disease. Causes, physiological and pathological changes, and factors that contribute to life prolongation and the strengthening of physiologic competence to improve the quality of life as individuals age will be addressed. Credit will be granted for only one prefix: HES or BIO. (General Studies-Level II, Natural Science)

HES 3820-3 Health Care Counseling (3 + 0)

ENG 1020 Prerequisites:

Pre/Corequisite: HES 1050 or NUT 2040

This course provides students with a basic understanding of the various methods of communication used in the health professions, and to enhance communication skills through practice. This class will focus on developing educational materials and counseling and interview-

ing patients.

HES 4350-3 Ayurveda Therapy II: Prevention and Management of Chronic Conditions (3+0)

HES 3350 or permission of instructor Prerequisites:

This course is a continuation from Ayurveda Therapy I. It covers the relationship between the psyche and the soma utilizing the Yogic and Ayurvedic techniques found in the classical texts of these two disciplines. Through different Yogic and Ayurvedic practices, the student will experience for themselves the influences of these practices on the psyche/soma. The student will experience asana, pranayama, mudra work, and marma point therapy, the effects of sound on the body/mind, daily and seasonal regimes for balancing the doshas and manas,

cleansing practices, and Ayurvedic cooking instruction.

Internship in Gerontology (0 + 6-15) HES 4520-3-6

SOC 1040 and PSY 3270 and HES 3810 or BIO 3530, and all but one gerontology orientation Prerequisites:

options course

Restrictions: Students desiring a minor or certificate in gerontology need to register for at least three

semester hours; students desiring a major in gerontology need to register for at least six

This course integrates and applies biological, psychological and sociological theories and all previously learned gerontology knowledge and skills to aging individuals in a gerontology setting. Student must meet with the gerontology advisor the semester before enrolling to

arrange their internship site. (Senior Experience)

HES 4750-3 Clinical Pathophysiology II (3 + 0)

Prerequisite:

This course provides an advanced understanding of pathophysiologic conditions utilizing systems theory. Pertinent bio-chemical and metabolic derangements are correlated with cellular structure to understand selected disease processes. The student should have background

knowledge in normal anatomy and physiology.

HES 4970-3 Internship in Holistic Health and Wellness (1+6)

senior standing and permission of the Health Professions Department Prerequisites:

This Holistic Health and Wellness capstone course allows the student to integrate and apply biological, psychological, sociological and cultural theories and all previously learned holistic health and wellness knowledge and skills to individuals in a health care setting. Under supervision, students will utilize all course work in collaborating with field experts in solving a problem related to holistic health and wellness. The holistic health and wellness area of study and the internship site are mutually agreed upon by the student, the faculty member, and the health setting. Students must meet with the Holistic Health and Wellness advisor the semester before enrolling to arrange their clinical site. The student spends one hour a week in seminar

and six hours a week for 15 weeks in a clinical setting. (Senior Experience)

HISTORY

HIS 1000-3 American Civilization (3 + 0)

Prerequisite: minimum performance standard scores on reading and writing preassessment placement tests American Civilization is an entry-level American history course designed to trace the roots of

contemporary America. (General Studies—Level II, Historical) (GT-HI1)

HIS 1010-3

Western Civilization to 1603 (3 + 0) (HON 1010)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course is a survey of the development of the culture and institutions of Western civilizations: the earliest civilizations of the Middle East, the transitions of the classical Mediterranean world, and the development of Western Europe in the Medieval, Renaissance, and Reformation periods. Credit will be granted for only one prefix: HIS or HON (General Studies—Level II, Historical) (GT—HI1)

HIS 1020-3

Western Civilization since 1603 (3 + 0) (HON 1020)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course surveys history and culture of Western civilization from 1603 to the present: the old regime and revolutions, 19th-century nationalism and liberalism, the crises of the 20th century, and the challenges of the 21st. Credit will be granted for only one prefix: HIS or HON (General Studies—Level II, Historical) (GT—HI1)

HIS 1030-3

World History to 1500(3+0)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course will introduce students to the world's civilizations and their development before 1500 from a broad, comparative framework. These civilizations will be studied from economic, intellectual, political, and social perspectives. (General Studies—Level II, Historical) (GT—HI1)

HIS 1040-3

World History since 1500 (3 + 0)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course provides an introduction to important literature, themes, theories, concepts and methods of world history since 1500. (General Studies—Level II, Historical)(GT-HI1)

HIS 1100-3 American West (3 + 0)

This course treats the growth and development of the Trans-Mississippi West from 1540 to 1900. Special attention will be paid to the economic and social factors that made the West a distinct region.

HIS 1110-3

Colorado History I (3 + 0)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course covers the history of the growth and development of Colorado with primary emphasis on the 19th and early 20th centuries. It treats Native American and Hispanic influence; exploration; mining and trapping; early settlements, pioneer life, labor; and aspects of the State's political history. (General Studies—Level II, Historical)(GT-HI1)

HIS 1210-3

American History to 1865 (3 + 0)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course surveys the European background of American history, the colonial period, the Revolution, the development of the U.S. from Washington through Jackson, the sectional differences of the 1840s and 1850s, and the Civil War. (General Studies—Level II, Historical) (GT–HII)

HIS 1220-3 American History since 1865 (3 + 0)

This course covers the immediate background to present-day America, beginning with the Civil War and culminating with the early 1990s. Such topics as industrialism, emergence of the U.S. as a world power, Progressivism, the First World War, the Great Depression, World War II, the Cold War, and U.S. social and political history in the second half of the 20th century will be treated. (General Studies—Level II, Historical) (GT–HI1)

HIS 1250-3

China, Japan, Korea since 1800 (3 + 0)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests. This course covers China, Japan, and Korea since 1800 emphasizing change and continuity in their politics, economies, and cultures. The course treats the historical tradition in East Asia, its erosion by internal and external challenges, the struggle of East Asian people to adjust to the new world order, and their effort to rebuild after World War II. The contribution of East Asian immigrants to American civilization will also be considered. (General Studies—Level II, Historical)(GT-HI1)

HIS 1530-3 Sports in America (3 + 0)

This course traces the history of modern sports from the 19th century to the present. This course explores how American institutions and traditions have shaped sports and how American expectations of sports have evolved over 200 years.

HIS 1650-3 Women in U.S. History (3+0) (WMS 1650)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests This course emphasizes women's changing roles in American history from 1607 to the present. The course covers the nature of women's work and their participation in the family, church, and reform movements in the colonial and Republican periods, and the 19th and 20th centuries. Students study the emergence of the modern woman in the 20th century, as well as the re-emergence of the women's movement. The course stresses both the changes and the continuities over the last 300 years. Credit will be granted for only one prefix: HIS or WMS. (General Studies—Level II, Historical)(GT-HI1)

HIS 1910-3

History of Meso-America: Pre-Columbian and Colonial Periods (3 + 0) (CHS 1010)

Prerequisite:

minimum performance standard scores on reading, writing, and mathematics preassessment placement tests

This course examines indigenous cultures of Meso-America during the pre-Columbian period with a focus on social, political, religious, artistic, scientific, and engineering artifacts before and after the conquest of Mexico and the Southwestern U.S. by Spain. Credit will be granted for only one prefix: CHS or HIS. (General Studies-Level II, Historical; Multicultural)

HIS 1920-3

History of the Chicana/o in the Southwest: 1810 to Present (3+0) (CHS 1020)

Prerequisite:

minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course concentrates on the era from Mexican Independence (1810-1821) through the modern Chicana/o era. This historical survey provides an overview of the Mexican population born and living in the Southwestern United States and provides specific attention on Chicana/o history in Colorado. Credit will be granted for only one prefix: CHS or HIS. (General Studies-Level II, Historical; Multicultural)

HIS 1940-3

Survey of African History (3 + 0) (AAS 1130)

Prerequisite:

minimum performance standard scores on reading and writing preassessment placement tests This course surveys the major developments on the African continent from ancient times to the modern period. Focuses on political and cultural developments in African civilizations from ancient Egypt to the contemporary period. Credit will be granted for only one prefix: HIS or AAS. (General Studies—Level II, Historical; Multicultural)

HIS 2010-3

Contemporary World History (3 + 0)

Prerequisites:

satisfaction of ENG 1010 and Level I Communication course requirements

This course explores the major developments in the 20th century emphasizing political, social and economic experiences. The issues facing the Third World are examined closely. (General Studies—Level II, Historical) (GT-HI1)

HIS 2650-3

Women of the West (3+0) (WMS 2650)

This course examines women who inhabited the American frontiers from pre-Columbian times through the 20th century. The lives and attitudes of Native American, Hispanic, African American, and native-born and European immigrant women are emphasized. Differences between images and the reality of women's lives are highlighted. Credit will be granted for only one prefix: HIS or WMS.

HIS 2820-3

Mexico: Independence to Revolution, 1810-1910 (3+0) (CHS 2120)

Prerequisite:

HIS 1910/CHS 1010

This course describes the social, political, cultural and economic development of the Mexican people during the 19th century. Also provides an analysis of how race, class, gender, regionalism and foreign intervention influenced Mexican history throughout the era. Credit will be granted for only one prefix: HIS or CHS.

HIS 2830-3

Mexico: Revolution to the Present, 1910-1990s(3+0) (CHS 2130)

Prerequisites:

CHS 1010/HIS 1910 and CHS 2120/HIS 2820 or permission of instructor

This course traces the social, political, cultural and economic effects of the 1910 Revolution on 20th-century Mexico. It also describes how the United States government and private citizens have influenced Mexico's history. Credit will be granted for only one prefix: CHS or HIS.

HIS 2950-3

West African Civilizations (3 + 0) (AAS 2130)

Prerequisites:

satisfaction of ENG 1010 and Level I Communication course requirements

This course surveys the history and cultures of West Africa from A.D. 1000 to the modern period. The course will focus on political, cultural and economic developments among West African peoples and states. Credit will be granted for only one prefix: HIS or AAS. (General Studies—Level II, Historical; Multicultural)

HIS 3010-3 History of Denver (3 + 0)

This course covers Denver from its Native American prehistory to the mid-20th century. Ethnic groups, political leaders, and the power elite are treated as are the major events in the city's history.

HIS 3023-3 History of Egypt (3 + 0) (AAS 3000)

Prerequisite: sophomore standing or permission of instructor

This course explores and examines major developments in the history of Egypt from the Pharaonic period to the modern era. Political, religious, economic and cultural elements are highlighted. Credit will be granted for only one prefix: HIS or AAS.

HIS 3031-3 Ancient Greece (3 + 0)

Prerequisite: HIS 1010 or permission of instructor

This course will treat the history of the Greek world from late Neolithic period to the rise of Macedonia. The Minoan and Mycenaean civilizations, the growth of the city–states such as Sparta and the development of democratic institutions at Athens, the Peloponnesian Wars and the rise of the kingdom of Macedonia will be covered.

HIS 3060-3 Rome and the Caesars (3 + 0)

Prerequisites: HIS 1010 or permission of instructor and satisfaction of all Level I General Studies course

requirements

This course is an upper-division survey course that concentrates on the history of Rome from its founding in the eighth century B.C.E. to its demise in the sixth century A.D. Roman history presents a unique study in the rise and decline of a civilization, and this course analyzes every aspect of that development. (General Studies—Level II, Historical)

HIS 3090-3 Native Americans in American History (3 + 0)

Prerequisite: satisfaction of Level I General Studies course requirements

The purpose of this course is to examine the history of the cultural contact and confrontation between North American indigenous people and Europeans and Africans from pre-Columbian times to the present. The course seeks to integrate ethnohistoric evidence from "traditional" Eurocentric accounts to provide as balanced an account as possible. (General Studies—Level II, Historical; Multicultural)

HIS 3100-3 American West Seminar (3 + 0)

In this seminar, students consider various topics relating to the American frontier. Primary emphasis will be on the 19th- and 20th-century Trans-Mississippi West.

HIS 3110-3 Colorado History II (3 + 0)

This course concentrates on 20th-century Colorado's political, social and economic history. The progressive movement, the Ku Klux Klan's rise to power, the depression years and post-World War II Colorado are covered in depth.

HIS 3120-3 Medieval History (3 + 0)

Prerequisite: satisfaction of Level I General Studies course requirements

This course covers the history and culture of Europe from circa 325 to 1300, emphasizing such themes as the transition from ancient to medieval civilization, Latin Christianity, the Carolingian empire, the papacy and the development of feudal society. (General Studies—Level II, Historical)

HIS 3140-3 Renaissance and Reformation (3 + 0)

Prerequisite: HIS 1010 or permission of instructor

This course studies the political, religious, cultural and economic aspects of the Renaissance, a period of decline in the 14th century and revival in the 15th century. The religious upheaval of the 16th century, with its roots in the Renaissance, and its immediate and long-range effects on Western civilization are examined in detail. (General Studies—Level II, Historical)

HIS 3200-3 Early Modern Europe, 1648–1789 (3 + 0)

Prerequisite: HIS 1020 or permission of instructor

This course covers European history from 1648 to 1789 including political, cultural and religious aspects of that history.

HIS 3210-3 French Revolution and Napoleon 1715–1815 (3 + 0)

Prerequisite: HIS 1020 or permission of instructor

Students examine the French Revolution in detail, after studying causes. Also considered are the effects of the Revolution and Napoleon upon France and the major countries of Europe.

HIS 3230-3 Nineteenth Century Europe (3 + 0)

Prerequisite: HIS 1020 or permission of instructor

This course is a chronological survey of the century of progress culminating in the tragic climax of the outbreak of World War I. Such topics as the industrial revolution, the consolidation of the nation-state, rise of the masses, liberalism, socialism, nationalism and imperialism

are covered.

HIS 3240-3 Imperial Russia (3 + 0)

> This class will examine the changes in Russian history from Peter the Great to Nicholas II, the last tsar of Russia. It will detail the rise of imperial Russian power and outline the social changes in Russian society that eventually led to the destruction of Imperial Russia and the

birth of the Soviet Union.

HIS 3241-3 Russia since 1917 (3 + 0)

HIS 1020 or permission of instructor Prerequisite:

This class will examine the changes in Russian history from the Russian and Bolshevik revolutions of 1917 to the fall of the Soviet Union in 1991 and current events in Russia. It will detail the transformation of the Russian Empire into the Soviet Union and outline the social

and political changes that contributed to the rise and fall of the Soviet Union.

HIS 3250-3 World War I (3+0)

HIS 1020 or permission of instructor Prerequisite:

This course provides an in-depth examination of the origins, course, consequences and out-

comes of World War I.

HIS 3260-3 Twentieth Century Europe, 1914-2000 (3+0)

This course covers Europe during and after World War I, the period leading up to World War

II as well as World War II and its aftermath.

HIS 3270-3 Issues in European History: Variable Topics (3 + 0)

This course is an examination of various problems in European history. The topics will vary to accommodate student needs and interests. May be repeated for credit as the course

title changes.

HIS 3290-3 Nazi Germany (3+0)

Prerequisite: HIS 1020 or permission of instructor

This detailed survey examines the origins of Hitler's regime within the context of 20th century Germany and Nazi domestic and foreign policies to 1939. World War II, given thorough coverage, is viewed as the logical culmination of Hitler's ideology and his ability to use the

German nation as a means to achieve his murderous ends.

HIS 3310-3 England to 1714 (3 + 0)

Prerequisites: HIS 1010 or permission of instructor and satisfaction of Level I General Studies course

requirements

This course covers the institutional and cultural development of the English nation from the earliest times to the death of Queen Anne. Particular attention will be focused on the legal and constitutional developments during the latter part of this period that have made the

English experience so unique. (General Studies—Level II, Historical)

HIS 3320-3 England since 1714(3+0)

HIS 1020 or permission of instructor and satisfaction of Level I General Studies course Prerequisites:

requirements

This course analyzes the social, political and economic developments that produced modern Great Britain, the British Empire, and the final retreat from power after World War I. (Gen-

eral Studies—Level II, Historical)

Ireland and the Irish (3 + 0)HIS 3340-3

This is a survey course in Irish history and culture from the earliest period of Celtic civilization up to the contemporary period. It explores the various developments in Irish history over the past 3,000 years and attempts to identify those trends that were uniquely Irish and

those that were a part of the overall evolution of European civilization.

HIS 3350-3 Countries/Regions of the World: Variable Topics (3 + 0)

This course examines various historical issues and problems of relationships among members of the world community. Specific countries or regions to be emphasized will vary according to student needs and interests. This course may be repeated for credit under different topics.

HIS 3360-3 Women in European History (3 + 0) (WMS 3360)

Prerequisites: HIS 1010, 1020, or permission of instructor

This course provides an historical analysis of the role and contribution made by women in the development of Western Civilization from Neolithic times to the present. Credit will be granted for only one prefix: HIS or WMS.

HIS 3370-3 The American Presidency (3 + 0)

Prerequisite: HIS 1220 or permission of instructor

This course surveys the history and structure of the American presidency as an institution and probes the lives and administrations of individual presidents. Significant political themes and topics pertaining to the White House's historical political climate are likewise explored.

HIS 3380-3 Nixon and the Kennedys (3 + 0)

This course employs a life-and-times approach to the study of Richard Nixon, the members of the Kennedy family (with emphasis on John and Robert) and the historical events that shaped the lives of Nixon and the Kennedys or were influenced by their lives. The larger story of modern American history is woven around the lives of these individuals who have played a prominent part in that history. Family backgrounds, childhoods and public careers are all considered in the biographical aspects of this course.

HIS 3400-1-3 Biography as History: Variable Topics (1-3 + 0)

This course is an in-depth examination of the lives of individuals who personify a major historical issue or theme. May be repeated for credit as the course title changes.

HIS 3410-3 American Colonial History (3 + 0)

Prerequisite: HIS 1210 or permission of instructor

This course focuses on a rich variety of themes in colonial American history ranging from exploration, planting colonies, political growth, social mobility, environmental and agricultural history to 1763.

HIS 3430-3 American Revolution and Early National Period, 1763–1848 (3 + 0)

Prerequisite:

HIS 1210 or permission of instructor

This course examines politics, society, and economics during the Revolutionary and Early National periods. Major topics will include American society on the eve of the Revolution, the causes of the Revolution, military and diplomatic aspects of the eras, the development of political parties, reform movements, the changing status of Native and African Americans, and the position of women.

HIS 3520-3 Civil War and Reconstruction (3 + 0)

This course traces the background of the Civil War, the war itself, and the aftermath of the war. It also familiarizes students with Civil War and Reconstruction historiography.

HIS 3530-3 American Baseball History (3 + 0)

The purpose of this course is to examine American baseball as a cultural reflection and catalyst in American life since the 1840s. Drawing on primary and secondary sources, as well as guest lectures, the course will illustrate the place of the sport within American culture.

HIS 3540-3 Emergence of Modern U.S., 1877–1920 (3 + 0)

Prerequisite: HIS 1220 or permission of instructor

This course traces the rise of industrialism; immigration and its impact; the urbanization of the nation; the westward movement; the organization of laborers and farmers; the growth of imperialism; and the reform spirit with attendant social, political, and constitutional adjustments. It also treats World War I and the War's immediate aftermath.

HIS 3570-3 African American History I (3 + 0) (AAS 3570)

Prerequisites: HIS 1210, HIS 1220, or permission of instructor

This course traces the distinctive role of the people of African heritage in the U.S. to 1876, moving from the background of African culture and the slave trade. The course focuses on the themes and subjects that reveal the complexities of the black experience. Credit will be granted for only one prefix: HIS or AAS.

HIS 3580-3 African American History II (3 + 0) (AAS 3580)

Prerequisites: HIS 1210, HIS 1220 or permission of instructor

This course continues to study the role of the people of African heritage in the U.S. from 1876 to the present. Emphasis is placed on understanding the black experience: family and church, sex and racism, politics, economics, education, criminal justice, black nationalism and the permanent contradiction between America's ideals and its practices. Credit will be granted for only one prefix: HIS or AAS.

HIS 3590-3 American Immigration History (3+0)

satisfaction of Level I General Studies course requirements Prerequisite:

This course concentrates on the movement of people into the United States. It considers the factors which cause them to migrate, their adjustment to their new homes, and the interaction between them and other Americans. (General Studies—Level II, Historical; Multicultural)

HIS 3610-3 Preservation/Public History (3 + 0)

This course traces the development of historic preservation in the U.S. and examines the role of the public historian in managing cultural resources.

HIS 3630-3 **Historic Western Places** (1 + 5)

This course, which includes site tours, covers the establishment and development of significant 19th century towns and military establishments in Colorado and adjacent states.

HIS 3640-3 U.S. World War I through World War II (3 + 0)

Prerequisite: HIS 1220 or permission of instructor

This course covers the United States between 1912 and 1945 including politics, foreign policy, society, technology, economics and culture. Among topics covered are the U.S. in World Wars I and II, culture, society and politics in the 1920's, the Great Depression and the New Deal.

HIS 3660-3 Recent U.S. 1945-1990s (3 + 0)

Prerequisite: satisfaction of all Level I General Studies course requirements

This course treats the United States from 1945 to the 1990s concentrating on the Cold War, the civil rights movement, the decline of political parties, and the nature of the centralized

state. (General Studies—Level II, Social Sciences)

HIS 3670-3 U.S. Foreign Relations: Variable Topics (3 + 0)

HIS 1210 or HIS 1220 Prerequisite:

This course is an examination of various issues, problems, or areas in American foreign policy from colonial origins to the recent past. The topics will vary to accommodate student needs and interests. This course may be repeated for credit under different topics. (General Studies—Level II, Historical)

HIS 3680-3 The Court in Crisis (3 + 0)This course will examine the major constitutional developments in the United States from World War I to the present. Special attention will be devoted to the Supreme Court's role in

advancing civil rights and civil liberties.

The History of the First Amendment (3 + 0) (HON 3689) HIS 3689-3

This course is divided into two parts that examine how Americans have thought about freedom of expression and freedom of religion from the seventeenth century to the present. Important documents, pivotal Supreme Court cases, and major controversies are carefully explored. Credit will be granted for only one prefix: HIS or HON.

HIS 3690-3 American Military History (3 + 0)

This course is a study of American military history from the wars of the colonial period through Vietnam. It considers battles, strategy and organization.

HIS 3700-3 Modern China (3+0)

satisfaction of Level I General Studies course requirements Prerequisite:

This course covers the history of China since 1800, with emphasis on the historical continuity and changes in its political, social, cultural and economic development. The course will also discuss chronologically the traditional order in China, its breakdown both by internal and external challenges, the Chinese people's "struggle" to adjust to the new world imposed by foreign powers, and their effort to rebuild their country through revolution. (General Studies—Level II, Historical)

HIS 3740-3 Modern Japan (3+0)

satisfaction of Level I General Studies course requirements Prerequisite:

This course covers the history of Japan since the mid-1850s, with emphasis on the political, social and economic development. The course will also discuss the traditional order in Japan, its modification over time, the Japanese "struggle" to adjust to the new world order imposed by foreign powers, its defeat in World War II and its effort to rebuild. (General Studies—Level

II, Historical)

HIS 3760-3 Modern Middle East (3 + 0)

This course explores the dynamic history of this volatile region with special emphasis on the post-World War II period. (General Studies—Level II, Historical)

HIS 3770-3 World of Islam (3 + 0)

This course examines major developments associated with the origin, expansion, and evolution of Islam and Islamic civilization from the seventh century to the present. (General Studies—Level II, Historical)

HIS 3790-3 The United States and Vietnam (3 + 0)

This course traces the 1960s conflict in Vietnam to its roots in 19th century colonialism, conflicting interests in World War II and the demise of French power in the 1950s. It details U.S. involvement and U.S. strategy from the 1950s until the defeat of South Vietnam in 1975. Attention is also paid to the U.S. home front and to the effects of the conflict.

HIS 3810-3 Latin America: Republics (3 + 0)

Prerequisite: satisfaction of all Level I General Studies course requirements

This course is a selective analysis of the problems and solutions of the Latin American republics in their attempts to construct viable nation states. Emphasis will be placed on the liberalism of the 19th century and the revolutionary experiences of the 20th century. (General Studies—Level II, Historical)

HIS 3820-3 United States and Latin America (3 + 0)

Prerequisite: HIS 1210 or HIS 1220 or permission of instructor

This course covers the historical development of relations between the U.S. and its hemispheric neighbors, from the original independence movements to the present.

HIS 3830-3

(CHS 3010) The Mexican Revolution (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

This course traces the social, political and economic forces that contributed to the Mexican Revolution (1910-1920). Furthermore, it provides a critical analysis of how leaders, women, the Mexican masses and the United States influenced revolutionary events. Credit will be granted for only one prefix: HIS or CHS.

HIS 3840-3 Topics in Popular Culture: Variable Topics (3 + 0)

This course will examine major trends in popular culture. Topics include American lifestyles, beliefs and customs. This course may be repeated for credit under different topics.

HIS 3850-3 American Social History (3 + 0)

This course focuses on significant events, issues, and themes in American social, cultural and intellectual history that have influenced the development of American society.

HIS 3870-3 History of U.S. Sexual Attitudes (3 + 0)

This course covers the wide-ranging history of American sexuality practices, beliefs and attitudes from the colonial period to the present and encourages students to place their attitudes within this historical framework.

HIS 3880-3 American Environmental History (3 + 0)

This course will examine the interactions between humans and plants and animals in North America from pre-Columbian times to the present, as well as U.S. attitudes toward land-scapes, cities and natural phenomena.

HIS 3890-1-2 Readings in History: Variable Topics (1-2 + 0)

In this course, a student will read extensively in a selected area. Critiques of the works read will be submitted to the professor directing the reading. May be repeated for credit as the title changes.

HIS 3980-3 Cooperative Education: History (3 + 0)

Prerequisite: placement in history internship with Cooperative Education Program

This course provides work experience in various areas of public history. Includes student research and special projects for federal and state agencies, preservation organizations, archives and museums while serving as interns.

HIS 4000-1 Research Techniques: Variable Topics (1 + 0)

This course introduces students to specialized research techniques, including research in U.S. public documents, state and municipal archives and historical research methods. May be repeated for credit as title changes.

HIS 4010-3 Methods of Teaching Social Science: Secondary School (3 + 0)

at least junior standing (should ideally be taken the semester before student teaching is done) Prerequisite:

This course explores the relationship between the social sciences, examines curricular approaches and current teaching methodologies, and discusses philosophies of the social sciences in the context of the secondary school and their practical applications for teaching.

HIS 4110-3 American Culture I (3 + 0) (HON 3850)

satisfaction of all Level I General Studies course requirements and permission of MSCD Prerequisites:

Honors Program director or instructor

This course critically examines the variety of interdisciplinary and multicultural perspectives in the study of American culture. Credit will be granted for only one prefix: HÎS or HON.

(General Studies—Level II, Historical; Multicultural)

HIS 4120-3 American Culture II (3 + 0) (HON 3860)

HIS 1210, 1220, or their equivalent, HON 3850, permission of MSCD Honors Program direc-Prerequisites:

tor, and satisfaction of all Level I General Studies course requirements

This course applies theoretical perspectives to contemporary works representative of American life and thought. Credit will be granted for only one prefix: HIS or HON. (General Stud-

ies—Level II, Historical)

HIS 4200-3 Studies in Original Sources: Variable Topics (3 + 0)

permission of instructor Prerequisite:

Students will study primary documents from particular historical periods, often in languages other than English. Historical commentaries will illuminate the issues discussed in the texts. This course may be repeated three times for credit, as the course title changes, for a maxi-

mum of 9 credit hours.

World War II 1939–1948 (3 + 0) HIS 4650-3

A detailed examination of World War II and the early years of the Cold War. Emphasis is placed on the war in Europe, the impact of Nazi rule, diplomacy among the wartime allies, the collapse of wartime cooperation, the advent of the Cold War, as well as containment.

HIS 4820-3 Senior Seminar (3 + 0)

HIS 1010, HIS 1020, HIS 1210, HIS 1220; at least nine upper-division history hours; satisfac-Prerequisites:

tion of all Level I and Level II General Studies course requirements; senior standing

This course covers historiography, research and writing techniques and philosophies of history. This is a capstone course and is required of history majors. (Senior Experience)

HIS 4860-3 History of Feminism and Women's Rights (3 + 0) (WMS 4860)

Prerequisite: WMS 1001 or either HIS 1210 or HIS/WMS 1650, or permission of instructor

The purpose of this course is to examine the history of American feminism from the Age of the Revolution to the present. Through the use of primary and secondary sources, the philosophies and strategies of women's rights activists and organizations will be examined. Among the special topics to be considered are the conditions and intellectual currents in society that facilitated the growth of American feminism, the achievements of the women's rights movement, the forces that opposed women's rights, and the issues for debate within the feminist

movements. Credit will be granted for only one prefix: HIS or WMS.

From the above HIS courses, the following may be repeated if the topics are changed: HIS 3270, HIS 3350, HIS 3400, HIS 3670, HIS 3840, HIS 3890, HIS 3980, HIS 4000, and HIS 4200.

HONORS

HON 1001-3 Introductory Psychology (3 + 0) (PSY 1001)

Prerequisite: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment placement tests

This course presents basic concepts, principles, and methods involved in the scientific study and understanding of human behavior. Attention is given to organic bases of human and other animal behavior with emphasis on perception, learning, motivation, maturation, physical and social adaptation, experimental techniques, individuality and personality, conflict and stress, adjustment and mental health, social behavior, and developmental processes. Required course for all psychology majors and minors. Credit will be granted for only one prefix: HON or PSY. (General Studies-Level II, Social Sciences)

HON 1010-3

Western Civilization to 1603 (3 + 0) (HIS 1010)

Minimum performance standard scores on reading and writing preassessment placement Prerequisite:

tests and, for the Honors prefix, acceptance into the Honors Program is required.

A survey of the development of the culture and institutions of Western civilization; the earliest civilizations of the Middle East, the transitions of the classical Mediterranean world, and the syntheses of Western Europe in the Medieval, Renaissance and Reformation periods. Credit will be granted for only one prefix: HIS or HON (General Studies—Level II,

Historical) (GT-HI1)

HON 1011-3

Introduction to Philosophy (3 + 0) (PHI 1010)

minimum performance standard scores on the reading and writing preassessment placement Prerequisite:

tests and for the Honor's prefix, acceptance into the Honors program

This course constitutes a survey of the major areas of philosophical inquiry: the enduring questions and alternative answers that continue to be relevant to contemporary living. Problems covered include (1) free will vs. determinism, (2) mind and body, (3) God and religion, (4) knowledge, (5) ethics, and (6) society and politics. Credit will be granted for only one prefix: HON or PHI. (General Studies—Level II, Arts and Letters)

HON 1020-3 Prerequisite:

Western Civilization since 1603 (3 + 0) (HIS 1020)

minimum performance standard scores on reading and writing preassessment placement tests

and, for the Honors prefix, acceptance into the Honors Program is required.

The history and culture of Western civilization from 1603 to the present; the old regime and revolutions; 19th-century nationalism and liberalism, and the crises of the 20th century, and the challenges of the 21st. Credit will be granted for only one prefix: HIS or HON (General Studies—Level II, Historical) (GT—HI1)

HON 2750-3

Prerequisites:

The Legacy of Arts and Letters I (3 + 0) ENG 1010, the Level I Communication course requirement, permission of the Honors Pro-

gram director

This course studies those works that have had a literary, philosophical and artistic impact on the image of the self, with strong emphasis on works prior to the 19th century. (General Studies—Level II, Arts and Letters)(GT—AH2)

HON 2760-3

The Legacy of Arts and Letters II (3 + 0)

Prerequisites:

HON 2750, ENG 1010, the Level I Communication course requirement, and permission of

the Honors Program director

A continuation of HON 2750, this course emphasizes modern works that have had a literary, philosophical and artistic impact on the image of the self. (General Studies—Level II, Arts and Letters) (Guarateed Transfer—AH2)

HON 2800-3

History of Science (3 + 0) This course is not approved for guaranteed transfer to other Colo-

rado colleges and universities

Prerequisites:

MTH 1110; either ENG 1010 or satisfaction of the Level I Communication course requirements; admission to the Honors Program or permission of the Honors Program director A comprehensive historical account of the rise of science and scientific thought from the Babylonians to the present. Emphasizes great scientists and how they helped change the world. Topics include astronomy, chemistry, physics, mathematics and biology. (General Studies Level II, Natural Science)

HON 2950-3

The Art of Critical Thinking (3 + 0)

Prerequisites:

minimum performance standard scores on reading and writing preassessment placement tests, permission of the Honors Program director

This introductory course in critical thinking emphasizes a method of rational investigation called the method of inquiry. Since inquiry includes arguments both inductive and deductive, attention is focused on constructing arguments and evaluating them. Effective communication will be practices. (General Studies—Level I, Communications)

HON 3689-3

The History of the First Amendment (3 + 0) (HIS 3689)

This course is divided into two parts that examine how Americans have thought about freedom of expression and freedom of religion from the seventeenth century to the present. Important documents, pivotal Supreme Court cases, and major controversies are carefully explored. Credit will be granted for only one prefix: HON or HIS.

HON 3800-3 Revolutions and Social Change I (3 + 0) (PSC 309K)

Prerequisites: one of the following: HIS 1020, SOC 1010, ECO 2010, PSC 1020, or PSY 2410; satisfaction of all

Level I General Studies course requirements; permission of the Honors Program director Examines the phenomenon of revolution. While the multidisciplinary orientation of the course focuses on revolutionary upheavals in the Western and Third World societies, the analytical paradigms explored include sociological, economic, political and historical dimensions. Credit will be granted for only one prefix: HON or PSC. (General Studies—Level II, Social Sciences)

HON 3810-3 Revolutions and Social Change II (3 + 0) (PSC 309D)

Prerequisites: HON 3800 and one of the following courses: HIS 1020, SOC 1010, ECO 2010, PSC 1020, or

PSY 2410; satisfaction of all Level I General Studies course requirements; permission of the

Honors Program director

A continuation of HON 3800. Explores the socioeconomic and political consequences of major revolutions studied in HON 3800 and attempts to explain their impact on contemporary world affairs. Credit will be granted for only one prefix: HON or PSC. (General

Studies—Level II, Social Sciences)

HON 3850-3 American Culture I (3 + 0) (HIS 4110)

Prerequisites: satisfaction of all Level I General Studies course requirements and permission of MSCD

Honors Program director or instructor

This course critically examines the variety of interdisciplinary and multicultural perspectives in the study of American culture. Credit will be granted for only one prefix: HON or HIS.

(General Studies—Level II, Historical; Multicultural)

HON 3860-3 American Culture II (3 + 0) (HIS 4120)

Prerequisites: HIS 1210, HIS 1220 or their equivalent; HON 3850; permission of the Honors Program direc-

tor; and satisfaction of all Level I General Studies course requirements

This course applies theoretical perspectives to contemporary works representative of American life and thought. Credit will be granted for only one prefix: HON or HIS. (General

Studies—Level II, Historical)

HON 4920-3 Senior Honors Seminar: Variable Topics (3 + 0)

Prerequisites: senior standing, permission of the Honors Program director

An intense, interdisciplinary, thematic seminar. Course content varies according to the description of the departments that offer the seminar. HON 4920 is an alternative to HON 4950.

HON 4950-3 Senior Honors Thesis (3 + 0)
Prerequisites: senior standing, permission of the Honors Council

Constitutes a Senior Experience, presented as an independent study, in which the student writes an Honors thesis supervised by a faculty member representing the discipline of the

topic. HON 4950 is an alternative to HON 4920.

HOSPITALITY, TOURISM, AND EVENTS

HTE 1030-3 Introduction to Hospitality, Tourism and Events (3 + 0)

This course presents an overview of the operations, planning, and management of the hospitality and tourism industries. The course includes career opportunities and the interrelations and interfections are cross the Hospitality. Tourism and Events profession

and interfacings across the Hospitality, Tourism, and Events profession

HTE 1051-3 Wedding Planning (3 + 0)

This course introduces students to the basic concepts involved in becoming a professional wedding planner. It covers the various details of planning the wedding and the basics of

managing an independent wedding planning business.

HTE 1533-3 Food Selection and Identification (2 + 2)

In this course, students study the science of food involved in food preparation, nutritional contents of food before and after processing, and food flavor. Students learn about diet and optimum health aspects versus cost and convenience. Students learn to recognize that nutrition, food safety, and economics of the marketplace as important factors when planning food

purchasing, menus, and recipes.

HTE 1603-3

Food Preparation and Sanitation (1 + 4)

Prerequisite:

This course presents the fundamental principles in food production, service, sanitation, and safety of the food service industry. Food-borne illnesses, standards enforced by regulatory agencies, and measures for preventing food-borne illnesses are studied. Students study and practice the Hazard Analysis Critical Control Point (HACCP) food safety system. This course also covers the proper use, cleaning, sanitation, and safety of food equipment and hand tools. Administration of the Serve-Safe Food service certificate examination will conclude the

course.

HTE 1811-3 Reservation and Destination Resources (3 + 0)

This course examines global distribution systems and information resources along with their role in tourism management. Students learn how to make reservations on a current reservation system as well as how to use tourism, destination, and mapping resources.

HTE 2502-3

Applied Hotel/Restaurant Operations (3 + 0)

Prerequisite:

ENG 1020 and SPE 1010 The student learns management principles as applied in hotel and restaurant operations. Guest lecturers from the hotel and restaurant industries take students through on-site visits of vaious sites. Classes meet in hotels and restaurants in the Denver metro area and also in mountain resorts.

HTE 2512-3 Prerequisite:

Hotel Front Office (3 + 0)

ENG 1020, HTE 1030 and SPE 1010

This course examines hotel front-office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and settlement. Students identify effective front-office management, with particular attention to the planning and evaluation of frontoffice operations. Front-office procedures and management are placed within the context of the overall operation of the hotel.

HTE 2613-3

Food Production and Service I (2 + 2)

HTE 1030 and HTE 1603 Prerequisite:

This course covers the proper use of quantity food equipment and tools, menu planning, nutrition and health, measurement and recipe conversions, yield tests, food costing and controls, menu pricing, cooking principles and methods, plate design, and the use of kitchen staples. Students experience the task of supervision in the kitchen setting.

HTE 2761-3

Convention Management (3 + 0)

This course presents the planning, organizing, and management processes of a convention meeting, Students explore budgeting, site selection, transportation, food and beverage function, publicity technologies, and audiovisuals for a convention. Students examine convention management systems software and internet applications.

HTE 2860-3

Sustainable Tourism (3 + 0)

This course examines the theoretical and applied dimensions of sustainable tourism. Using national and international case studies, the course identifies the relationships among tourism activities, cultural issues, ecological systems, political agendas, economic opportunities, and resource utilization.

HTE 3201-3

Niche Tourism Markets (3 + 0)

Prerequisite: Pre/Corequisite:

ENG 1020, HTE 1030, and SPE 1010

HTE 2860

This course explores the concept of special-interest tourism. The course includes the shift towards a higher level of quality tourism in authentic settings and small groups of tourists. Various niche tourism initiatives, policies, and strategies are investigated and evaluated.

HTE 3522-3

Hotel Housekeeping (3 + 0)

Prerequisite:

HTE2512

This course demonstrates how to manage housekeeping operations in the hotel industry. Students study the management of direct housekeeping day-to-day operations from the big picture perspective down to technical details. This course examines the interrelation of hotel departments, and maximum guest service and profitability.

HTE 3570-3

Hospitality and Tourism Marketing (3 + 0)

Prerequisite

ENG 1020, HTE 1030 and SPE 1010

The course applies principles of marketing and advertising to the specific needs of the hotel, restaurant, tourism and event industries. Students conduct field work in their area of concentration, analyzing a particular marketing problem.

Hospitality and Tourism Law (3+0) HTE 3580-3

Prerequisite: ENG 1020, HTE 1030 and SPE 1010

This course provides an overview of the legal fundamentals that apply to operations and management in the hospitality and tourism industries with an emphasis on preventive management practices. Legal procedures, Civil Rights, contract law, negligence, relationships with guests, and specialized liabilities related to food and alcohol service, and tourism companies are covered, as well as contemporary legal issues in hospitality management related to employment practices, internal and market regulation, and franchising.

HTE 3603-3 Labor and Production Control (3 + 0)

Prerequisite: HTE 1030, ACC 2010, and MTH 1210; or permission of instructor

> This course examines the skills of a manager of food and beverage operations in the hospitality industry. Procurement, preparation and service to final accountability of sales and costs

are covered.

HTE 3613-3 Wine Fundamentals (3 + 0)

Prerequisite: Minimum age of 21 years

This course examines the basics of wine knowledge, selection, and service. Viticulture, vinification, and critical appraisal of wines of the major wine regions of the world are covered.

HTE 3623-3 Food Production and Service II (1+4)

Prerequisite: HTE 2613 and NUT 2040

This course covers the preparation and artistic techniques for presentation of foods. Principles of restaurant and table service methods are studied. Students practice the skills of

kitchen manager and dining room manager.

Healthy Cooking (2 + 2) HTE 1603 and NUT 2040 HTE 3643-3

Prerequsite:

This course illustrates the elements of food flavors through the exploration of the nutritional value of food. The principles of healthy cooking and nutrition will be employed and applied to food types to include the demonstration of cooking with less fat and less salt. Students

develop and analyze healthy cooking techniques, recipes, and menus.

HTE 3652-3 **Hospitality Property Management (3 + 0)**

Prerequisite:

This course examines blueprint reading, building construction safety, utility requirements,

and mechanical systems as they relate to managing a hospitality property.

HTE 3683-3 Beer and Spirits (2 + 2)

Prerequisite: Minimum age of 21 years

This course provides an overview of responsible beverage alcohol service and includes the principles of production, storage, and service of beers and spirits. Major categories of beer are evaluated to include the practical brewing and sensory analysis of beer styles. The classic spirits of the world, their history, and their modern production methods also are reviewed. Students practice mixology, training, and evaluation in bartending skills through the classroom laboratory. Students are evaluated through the National Restaurant Association Bar-

Code Responsible Beverage Alcohol Service Certification Examination.

HTE 3750-3 Hospitality Promotions (3 + 0)

ENG 1020, HTE 1030 and SPE 1010 Prerequisite:

This course provides students with an opportunity to conceptualize, design, and create promotional materials that are customarily used in the hospitality and tourism industries. Stu-

dents plan, develop, and implement promotional and marketing tools.

HTE 3761-3 Trade Shows and Expositions (3 + 0)

ENG 1020, HTE 1030, HTE 2760 and SPE 1010 Prerequisite:

> A course for those preparing for a career as a trade show manager, exposition manager, or association meeting professional. This course explores exhibit registration, financial management, promotional materials, sponsorship management, volunteer coordination, room set-

up, food and beverage needs, and speaker selection.

HTE 3813-3 Baking and Pastry (1 + 4)

Prerequisite:

This course examines baking and pastry principles. The practical laboratory provides learning opportunities in equipment operation, preparing dough, baking, decorative arts, and presentation techniques. This course concentrates on bakeshop management, organization, and

supervisory knowledge and skills.

HTE 3871-3 Cruise Tourism (3 + 0)

Prerequisite: ENG 1020, HTE 1030, HTE 2860, and SPE 1010

This course provides a comprehensive overview of the cruise industry. Using national and international case studies, the course identifies the relationships among the cruise product,

cruise geography, maritime law, and tourism activities.

HTE 4000-3 Hospitality Field Experience (0 + 9)

Prerequisite: Complete twelve hours in major concentration, senior standing, completion of all Level I and

Level II General Studies college course requirements, including MTH 1210, and approval of

the HTE department.

In this course, students apply the theoretical concepts of hospitality and tourism to a practical on-site learning experience. The course includes 135 hours of field experience in an international control of the course in the course in the course of the course in the course of the

ship, community volunteer program, or a study abroad setting. (Senior Experience)

HTE 4010-1 Hospitality Special Project (0 + 3)

Prerequisite: Complete twelve-hours in major concentration, senior standing, and completion of all Level

I and Level II General Studies college course requirements.

In this course, students apply the theoretical concepts of hospitality and tourism to a practical on-site learning experience. This course includes 45 hours of field experience in an international content of the course includes 45 hours of field experience in an international content of the course includes 45 hours of field experience in an international content of the course o

ship, community volunteer program, or a study abroad setting.

HTE 4040-3 Hospitality Senior Research (3 + 0)

Prerequisite: Complete twelve hours in major concentration, senior standing, and completion of all Level

I and Level II General Studies college course requirements, including MTĤ 1210.

This course provides the approaches and techniques necessary for senior students to analyze and synthesize-needs, create and develop a major research project in Hospitality, Tourism, and Events, and effectively interpret results and their application to their major concentration area. (Senior Experience).

HTE 4201-3 Adventure Travel and Ecotourism (3 + 0)

Prerequisite: HTE 3201 or permission of instructor

This course examines the theoretical and applied dimensions of two forms of alternative tourism: Adventure Travel and Ecotourism. An overview of their implications on tourism planning is provided. Emphasis is on the role of adventure travel and ecotourism in preser-

vation and conservation of cultural and natural tourism resources.

HTE 4250-3 Hospitality for Profit (3 + 0)

Prerequisite: ACC 2010 and MTH 1210

This course concentrates on the analysis and interpretation of the hospitality and tourism industry accounting procedures and financial statements. Balance sheets, income statements, and cash flow statements will be covered. Principles of budgeting, forecasting, pricing techniques, financial ratios and financial management case problems explicit to the hotel, restau-

rant, tourism, and meeting industries are studied.

HTE 4592-3 Current Topics: Lodging (3 + 0)

Prerequisite: at least junior standing

The course considers various problems, subjects, and trends related to changing environments and events in the hotel industry. Subjects related to career as well as personal development may also be studied. This course may be repeated under different topics three times for

a maximum of nine total credits earned

HTE 4613-3 Advanced Study of Wine (2 + 2)

Prerequisite: Minimum age of 21 years and HTE 3613

In this course students practice evaluation of wines and begin to distinguish wines in blind sensory analysis sessions. Tours of local wineries provide opportunities to examine and inspect the production methods of various styles of wine. Practical in-restaurant service techniques will be appraised as well as critical reviews of wine lists and food and wine pairings. A gourmet dinner service will provide a practical application for relating wine and food

pairings and service skills.

HTE 4650-3 Hospitality Human Resources (3 + 0)

Prerequisite: HTE 3580 or permission of instructor

This course addresses various issues and challenges to effective human resource management in the hospitality industry. The course explores selection, training, motivation, team-building, organization, and supervisory skills and processes.

Hospitality Negotiations and Sales (3 + 0) HTE 4730-3

Prerequisite: HTE 3750 or permission of instructor

This course provides an overview of the legal, ethical, and practical environment which impacts the negotiation of meeting contracts and the execution of the events which they rep-

resent. It examines the strategies of negotiation and sales.

HTE 4793-3 Current Topics: Restaurant (3 + 0)

at least junior standing Prerequisite:

> The course considers various problems, subjects, and trends related to changing events in the restaurant industry. Subjects related to career as well as personal development may also be studied. This course may be repeated under different topics three times for a maximum of

nine total credits earned.

HTE 4811-3 Managing a Destination (2 + 2)

Prerequisite: Complete twelve hours in major concentration, senior standing, and completion of all Level

I and Level II General Studies college course requirements, including MTH 1210.

In this course, students apply the theories of planning and organizing a tour through a practical destination management learning experience. A two-day and one-night learning experience in the Denver metropolitan area on the 6th or 12th weekend of the semester is a manda-

tory requirement of this course. (Senior Experience)

HTE 4860-3 Hospitality Security and Safety (3 + 0)

Prerequisite: HTE 3580 or permission of instructor

This course examines security, loss prevention, safety, and risk management as related to the hospitality and tourism industries. Legal concepts specific to industry operations are applied in detail through case studies, role playing, and site visits. Students conduct a risk assessment

survey and compose a loss prevention management plan.

HTE 4891-3 Current Topics: Tourism and Events (3 + 0)

Prerequsite: at least junior standing

The course considers various problems, subjects, and trends related to changing events across the tourism and events industries. Subjects related to career as well as personal development may also be studied. This course may be repeated under different topics three times for a

maximum of nine total credits earned.

HUMAN PERFORMANCE AND SPORT ACTIVITIES (HPL)

Special Note: No more than four semester hours in human performance and sport activity (HPL) courses will be counted toward a bachelor's degree for students who are not majoring in Human Performance and Sport.

HPL 1000-2 Human Performance and Leisure Activities: Variable Topics (1 + 2)

A wide variety of two-credit activity courses designed for the interests of the general student body. These courses do not serve the needs of human performance and sport and leisure

studies majors. May be repeated for credit as course title changes.

HPL 1010-2

This course is designed for the nonswimmer and novice swimmer. Instruction and practice in basic water skills to make the student water-safe and "at home" in the aquatic environment.

Swim Conditioning (1+2)HPL 1030-2

Prerequisite: knowledge and skill in the basic swimming strokes

This course is designed to improve the student's cardiovascular fitness through lap swimming.

HPL 1040-2 Water Exercise (1+2)

A water exercise conditioning program designed to improve and maintain fitness by improving aerobic capacity; increasing flexibility and range of movement; toning major muscles and controlling weight. Swimming ability is not required for participation.

HPL 1080-2 Scuba Pool and Lecture (1+2)

Prerequisites: student must be able to swim a minimum of 200 yards and tread/float for 10 minutes

This course covers basic instruction and skills in both snorkeling and scuba diving. Successful

completion of this course will qualify the student for open-water certification dives.

HPL 1090-2 Scuba Open Water Certification (1 + 2)

Prerequisite: student must have completed HPL 1080 within last six months

This course covers both basic and advanced instruction and skills for snorkeling and scuba diving. Successful completion of this course will qualify the student for Open Water Diver Certification.

HPL 1130-2 Ballet Level I (1 + 2)

This course is designed for adults with minimal or no experience. Basic steps, positions, and movements required in classical ballet will be taught, stressing correct placement based on anatomy and physical laws of motion.

HPL 1150-2 Ballroom Dance (1+2)

This course provides instruction and practice in ballroom dance with a focus on traditional dances. Dance mixers and ice breakers will also be included in this class.

HPL 1160-2 Jazz Level I (1 + 2)

This course is designed to teach fundamental techniques of jazz dance for physical fitness and health, to build endurance, figure control, and strength; to aid the student with movement and introduce them to an exciting dance experience.

HPL 1180-2 Modern Dance I (1 + 2)

This course is designed for the student with minimal or no dance experience. A basic movement foundation stressing placement, strength, stretch and coordination will be included to increase physical awareness.

HPL 1210-2 Improvisation and Choreography (1 + 2)

This course will explore movement through creative problem solving and is organized into sequences to express a variety of themes.

HPL 1240-2 Tap Dance I (1 + 2)

This dance course is designed to provide an introduction to tap dance activities, as well as the physical, social and emotional benefits derived from regular participation in such an activity.

HPL 1330-2 Golf I (1+2)

This is a course designed for the beginning golfer. The course covers individual skills and rules. Range practice is conducted on the outdoor fields.

HPL 1340-2 Golf II (1+2)

Prerequisite: HPL 1330 or adequate playing ability

This course is designed for the student with prior experience in golf. The course will include review of fundamentals and advanced skills. Range practice is conducted on the outdoor fields.

HPL 1350-2 Tennis Level I (1+2)

This course is designed for beginning players who are below 2.5 USTA rating. Skills, strategy and rules at the introductory level are presented.

HPL 1400-2 Fencing (1+2)

This course is designed to teach the basic fundamentals of beginning fencing.

HPL 1410-2 Ski, Cross-Country or Snowboard (1 + 2)

This course is taught at a nearby ski area. Lessons are presented by the area's instructional staff in alpine skiing, cross-country skiing, or snowboarding. Instruction for beginners to advanced students is given.

HPL 1450-2 Backpacking and Camping (1+2)

This is a course that combines lectures and a weekend backpacking trip where the student will learn where to go, how to dress, the type of equipment needed, how to feed him/herself and others, as well as learning wilderness ethics.

HPL 1660-2 Tae Kwon Do Level I (1 + 2)

This course is designed to introduce the beginning student to the Korean martial art of tae kwon do and how it may relate to personal health, physical conditioning and self defense.

HPL 1670-2 Tae Kwon Do Level II (1 + 2)

This course will give the intermediate and advanced martial arts student the opportunity to develop and perform their art for their own enjoyment and for the public.

HPL 1750-2 Weight Training Level I (1+2)

This is a course designed to introduce the student, both male and female, to the proper conditioning programs for personal physical development.

HPL 1760-2 Weight Training Level II (1 + 2)

Prerequisite: HPL 1750 or permission of instructor

This is an advanced course for students with some previous skills and knowledge of weight training. It is designed to explore more techniques of lifting, as well as a deeper understanding of muscular hypertrophy.

HPL 1780-2 Step Aerobics (1+2)

This course is designed for the student with no prior experience in step aerobics. Basic stepping techniques and footwork, muscular endurance, muscular flexibility and muscular strength will be emphasized. Nutrition, injury prevention and basics of aerobic conditioning will be covered in lectures.

HPL 1790-2 Aerobics (1 + 2)

This course is designed as an introduction to a lifetime exercise program that can help the student develop cardiovascular endurance, muscular strength and endurance and flexibility. In addition to weekly activity sessions, students will receive basic information regarding healthy lifestyles. Students will be evaluated with both written and physical testing.

HPL 1810-2 Hip and Thigh Conditioning (1+2)

This course is designed to introduce the students to an exercise program that will develop muscular endurance and muscular strength, as well as flexibility. The course content will also include lectures on nutrition, basic anatomy, physiology, injury prevention and treatment.

HPL 1820-2 Stretch and Strength (1 + 2)

This course contains instruction on building strength and stretch, forming long, slender muscles. Proper stretching techniques and positions, along with methods of developing strength are covered. Sports injury prevention is emphasized in this course.

HPL 1830-2 Walk, Jog, Run (1 + 2)

This course is designed to introduce the student to the benefits of walking/jogging as a method of aerobic conditioning and how to use these exercises safely while promoting cardiovascular health.

HPL 1840-2 Hatha Yoga I (1 + 2)

This course offers students an introduction to the basic methodologies of asana (posture), pranayama (breathing practices) and meditation. The foundation of yoga, as outlined in the Hatha and Raja yoga philosophies, will build the context for the class work.

HPL 1850-2 Hatha Yoga II (1 + 2)

Prerequisite: HPL 1840 or permission of instructor

This is an advanced course that deepens the application of pranayama, meditation, bandhas and the mudras in yoga practice. The focus is to deepen the understanding of Classical Yoga and the Yoga Sutras by Pantanjali.

HPL 1870-2 Stress Management (1 + 2)

This course is designed to provide the student with an understanding of the elements of stress-induced conditions, as well as provide a means by which students will become capable of effectively relieving stressful conditions.

HPL 1880-2 Tai Chi Level I (1 + 2)

This course is designed to introduce the beginning student to the 25 basic movement forms and concepts of Tai Chi, an ancient form of Chinese physical exercise and mental concentration. Tai Chi is a gentle form of exercise that provides practical application to movements in daily life with an emphasis on meditation, strength, flexibility and aerobic training.

HPL 1890-2 Tai Chi Level II (1 + 2)

Prerequisite: HPL 1880 or permission of instructor

This course is designed for students already familiar with the content of Tai Chi Level I. Tai Chi Level II completes the 108 movement forms and concepts begun in Tai Chi Level I and covers advanced movements through expanded amplitude, direction and complexity.

HUMAN PERFORMANCE AND SPORT THEORY (HPS)

HPS 1600-2 Introduction to Human Performance and Sport (2 + 0)

This is an introductory course for K-12 Physical Education majors and minors. The course orients students to campus resources and how to access those resources. In addition students are introduced to the expectations and processes for teacher licensure. Students will become acquainted with the historical and philosophical foundations of physical education.

HPS 1623-3 Prevention and Care of Athletic Injuries (3 + 0)

This course is designed to provide students with an overview of the diverse field of sports medicine and a survey of common activity related injuries. Topics include injuries to the upper extremity, lower extremity, head, spine and internal organs. The athletic injury assessment process and treatment and therapeutic protocols will be discussed. This course is one of the gateway courses to the Athletic Training Education Program but open to all students.

HPS 1640-2 Physical Fitness Techniques and Programs (1 + 2)

This course is designed to provide the student basic skills, practice, and theory in physical fitness. Major components of muscle strength, muscle endurance, cardiovascular pulmonary endurance, flexibility and body composition are discussed in detail. Exercise prescription skills, administration skills, and leadership skills are enhanced through active participation in conditioning activities.

HPS 2020-3 Community Health (3 + 0)

A course designed to provide an in-depth study into health matters involving virtually all citizens for teachers of health education. Emphasis is in promoting community health, preventing disorders and disabilities, environmental health and health services.

Sport Industry (3 + 0) HPS 2050-3

upper division standing Prerequisite:

This survey course is designed for the HPS professional who desires a career in the professional sport setting, commercial sports industry including sales, promotions, marketing and sport arena facility operations.

HPS 2060-3 Emergency Rescue/First Responder & CPR (3+0)

This course is designed for the professional and layperson to prepare them in emergency response and cardiopulmonary resuscitation for infants, children and adults.

HPS 2070-3 Sport Venue Operations (3 + 0)

This course is designed for the HPS professional who wants to work in sport venue operations areas such as ticket operations, facility maintenance, security, traffic flow, financing, staffing and day of game procedures.

Physical Education Lab for the Elementary Teacher (0+2)HPS 2080-1

Pre/Corequisite:

ART 2040 or MUS 2040

This laboratory course enables students to apply the content and methods of physical education, including the Colorado Model Content Standards for Physical Education, to elementary curriculum planning, implementation, and assessment. This is a course designed to acquaint students with theories, rationale, activities, and materials used to teach physical activities to children at the elementary school level. Appropriate methods for integrating physical education into the elementary curriculum will be explored.

HPS 2130-3 Activities and Health for the Elementary Child (3 + 0)

The course provides prospective early childhood and elementary teachers with a basic background in elementary school physical education and health education programs, including the role of health science in the schools, the contributions of physical education to the school health program, safety education, fundamental motor skills and elements and activities included in a rhythms program. The course is designed for nonphysical education majors and minors and cannot be taken in lieu of HPS 2500, HPS 2520 and HPS 3000.

HPS 2160-3 Water Safety Instructor Certification (2 + 2)

Prerequisite:

American Red Cross Advanced Lifesaving Certification or Lifeguard Training Certification This course studies the methods of teaching water safety, skill analysis and correction. Course leads to Red Cross Water Safety Instructor Certification. Field experience assignments will be a required part of the class.

HPS 2220-3 Foundations of Athletic Training (2 + 2)

Prerequisite: HPS 1623

Corequisite: HPS 2221

This course is designed to provide a study of prevention, recognition, and treatment of various athletic injuries as well as specific issues relating to the profession of athletic training. The objectives of this course address specific athletic training competencies and proficiencies. This is one of the sequential professional preparation courses in the Athletic Training

Education Program.

HPS 2221-2 Athletic Training Clinical Experience I (1 + 10)

Prerequisite: HPS 1623 Corequisite: HPS 2220

This is a clinical course for athletic training majors, addressing specific athletic training clinical proficiencies. This course is the first in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on clinical skills involved with the management of various athletic injuries/illnesses, taping, splinting, and wound care.

HPS 2440-3 Dance Production (3 + 0)

Prerequisites: HSL 1310, HSL 1330, or permission of instructor

This course is designed to take the dance student through the steps necessary for creating a dance performance. Stage lighting, costumes and makeup, props, management and promo-

tion are part of this course.

HPS 2720-2 Fundamentals of Coaching (2 + 0) This course is not approved for guaranteed transfer to

other Colorado colleges and universities

Prerequisites: satisfactory completion of Level I General Studies course requirements

This is an entry-level course designed to meet requirements for a three-year letter of authorization for coaching in the state of Colorado. It will provide an introduction to the various

technical aspects of coaching. (General Studies—Level II, Social Sciences)

HPS 2790-3 Pathology of Athletic Injury/Illness (3 + 0)

Prerequisite: HPS 162

This course discusses the mechanical, physiological, and pathological aspects of athletic injury/illness. Emphasis is placed on parameters most important in understanding common pathological conditions associated with athletic injury/illness. Pharmacological interventions

of these conditions are also discussed.

HPS 2860-3 Therapeutic Modalities in Sports Medicine (2 + 2)

Prerequisite: HPS 2220 Corequisite: HPS 2861

This course will familiarize the athletic training student with the fundamental aspects and operational components necessary for the application of various therapeutic modalities employed in sports medicine. Theoretical rationale, clinical applications of, and clinical decision-making regarding the various modalities will be emphasized. This is one of the sequen-

tial professional preparation courses in the Athletic Training Education Program.

HPS 2861-2 Athletic Training Clinical Experience II (1 + 10)

Prerequisite: HPS 2221 Corequisite: HPS 2860

This is a clinical course for athletic training majors, addressing specific athletic training clinical proficiencies. This course is the second in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the clinical application of various therapeutic modalities and the principles of sound clinical decision-making.

HPS 2890-2 Personal Training: Concepts and Applications (2 + 0)

Prerequisite: Must be a sophmore level (or later) HPS major

This class is designed to help students learn the business of personal training, as well as to give them the tools to train all types of clients effectively. Class discussion, lectures, hands on training, demonstration and field trips will help students get a greater awareness of what it

takes to be an excellent trainer.

HPS 3000-3 Health Programs in Human Performance and Sport (3 + 0)

Prerequisite: HES 1050

This course is intended to give the prospective professional in human performance and sport a foundation in health education including content for health and safety instruction, promotion of healthful living, and an understanding of health services and programming. An overview of the school health program-health instruction, health services, and healthful school

environment is also presented.

HPS 3100-3

Sport Industry Media Operations (3 + 0)

Prerequisite: HPS 2050 or permission of instructor

This class is designed for business or sport professionals seeking employment in Sport Industry Operations and large event facilities. Media, business, journalism, marketing and public relations will be explored with content tailored specifically for the operations and facilities of the Sport Industry. Weekly topics will emphasize the roles of the individual media, (print, broadcast, and electronic) in sports operations and successful large facilities event planning.

HPS 3300-3

Anatomical Kinesiology (2 + 2)

Prerequisites: BIO 2310 or acceptable human anatomy course, and satisfactory completion of Level I Gen-

eral Studies course requirements
This course is a study of the musculature of the human body and the basic mechanics of
human motion. Analysis of joint movement and muscular involvement in various physical
activities will be emphasized. The application of the basic principles of physics to the analysis
of human motion will be examined. Additional emphasis will be placed on the relevance of

this analysis to teaching effectiveness and rehabilitation programs. (General Studies—Level II, Natural Science)

HPS 3340-3

Physiology of Exercise (2 + 2)

Prerequisites: BIO 2320, or acceptable human physiology course, HPS 1640, and all Level I General Studies

course requirements

This course introduces the student to the physiological response of individuals to exercise as well as the application of these responses to sports medicine, rehabilitation and general fitness. The laboratory provides experiences that demonstrate the underlying theoretical constructs that govern physiological responses to exercise. (General Studies—Level II, Natural Science)

HPS 3400-3 Prerequisites:

Methods of Teaching Secondary Physical Education (3 + 0)

tes: EDS 3110, EDS 3120

This course is a companion course to and must be taken concurrently with HPS 3410, Field Experience in Secondary Physical Education. The course teaches students how to convert content, theory and conceptual aspects of academic and professional teacher education into standards-based instruction through assignments, assessments, management plans, and teacher work samples. Students plan and micro-teach lessons integrating Colorado Model Content Standards and collaborate to develop interdisciplinary lessons that link physical education to reading and mathematics. Students design a variety of models of instruction and approaches to classroom management to support learner's growth toward Performance Based Standards for Colorado Teachers.

HPS 3410-2

Field Experience in Secondary Physical Education (0 + 4)

Prerequisites: EDS 3110, EDS 3120

This course is a companion course to and must be taken concurrently with HPS 3400, Methods of Teaching Secondary Physical Education. This course integrates the content, theory, and conceptual aspects of academic and professional teacher education in a 60-hour standards-based field experience in secondary physical education. This field experience provides the pre-student teaching candidate opportunities in school settings to demonstrate their developing teaching competencies and extends opportunities to implement and assess integrated lessons that promote student achievement. Students apply principles of teaching and classroom management to make appropriate decisions for diverse groups of learners and to adjust approaches for secondary physical education students with special needs.

HPS 3460-3

Measurement and Evaluation in Human Performance and Sport (3 + 0)

Prerequisite:

Completion of Level I General Studies requirements.

This course is required for all majors in the HPS teacher tracks programs. It is designed to help students to learn how to measure and evaluate performance in physical education classes. Particular attention is given to using computer software for analyzing measurement data.

HPS 3500-3 Prerequisites:

Methods of Teaching Elementary Physical Education (3 + 0)

EDS 3110, EDS 3120

This course is a companion course to and must be taken concurrently with HPS 3510, Field Experience in Elementary Physical Education. The course teaches students how to convert content, theory and conceptual aspects of academic and professional teacher education into standards-based instruction through assignments, assessments, management plans, and teacher work samples. Students plan and micro-teach lessons integrating Colorado Model Content Standards and collaborate to develop interdisciplinary lessons that link physical education to reading and mathematics. Students design a variety of models of instruction and approaches to classroom management to support learner's growth toward Performance Based Standards for Colorado Teachers.

HPS 3510-2 Field Experience in Elementary Physical Education (0 + 4)

Perequisites: EDS 3110, EDS 3120

This course is a companion course to and must be taken concurrently with HPS 3500, Methods of Teaching Elementary Physical Education. This course integrates the content, theory, and conceptual aspects of academic and professional teacher education in a 60-hour standards-based field experience in elementary physical education. This field experience provides the pre-student teaching candidate opportunities in school settings to demonstrate their developing teaching competencies and extends opportunities to implement and assess integrated lessons that promote student achievement. Students apply principles of teaching and classroom management to make appropriate decisions for diverse groups of learners and to adjust approaches for elementary physical education students with special needs.

HPS 3620-2 Trends and Issues in Human Performance and Sports (2 + 0)

A chronological study of American physical education, human performance and sports from 1840 to the present, as reflected through trends and issues. European history as it relates to American physical education and the development of AAHPERD are included, plus a comparative view of sport, human performance and physical education with English-speaking and Eastern bloc countries.

HPS 3700-2 Psychology of Coaching (2 + 0)

The psychology of coaching various sports. An in-depth study of motivation of the athlete and how the athlete responds under given conditions.

HPS 3720-3 Science and Art of Coaching and Athletic Administration (3 + 0)

This course covers principle aspects of coaching pedagogy and the organizational and planning techniques necessary for successful coaching.

HPS 3780-2 Fitness Programs for Special Populations (2 + 0)

Prerequisite: HPS 1640

Discusses ways to adapt fitness programs to meet the needs of people with special exercise requirements such as diabetes, asthma, emphysema, coronary disease and pregnancy.

HPS 3830-3 Upper Body Injury Evaluation (2 + 2)

Prerequisites: HPS 2790, HPS 2860

Corequisite: HPS 3831

This course introduces the athletic training student in the injury evaluation process associated with upper body athletic injuries. Emphasis is placed upon the injury history, observation, palpation of specific anatomical structures, and range of motion, strength, and functional testing leading to specific injury recognition. This is one of the sequential professional

preparation courses in the Athletic Training Education Program.

HPS 3831-2 Athletic Training Clinical Experience III (1 + 10)

Prerequisite: HPS 2861 Corequisite: HPS 3830

This is a clinical course for athletic training majors, addressing specific athletic training clinical proficiencies. This course is the third in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the clinical skills are the required core and the control of the course is on the clinical skills.

applied to the evaluation techniques involved with upper body athletic injuries.

HPS 3850-3 Lower Body Injury Evaluation (2+2)

Prerequisite: HPS 3830 Corequisite: HPS 3851

This course introduces the athletic training student in the injury evaluation process associated with lower body athletic injuries. Emphasis is placed upon the injury history, observation, palpation of specific anatomical structures, and range of motion, strength, and functional testing leading to specific injury recognition. This is one of the sequential professional

preparation courses in the Athletic Training Education Program.

HPS 3851-2 Athletic Training Clinical Experience IV (1 + 10)

Prerequisite: HPS 3831 Corequisite: HPS 3850

This is a clinical course for athletic training majors, addressing specific athletic training clinical proficiencies. This course is the fourth in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the clinical skills

applied to the evaluation techniques involved with lower body athletic injuries.

HPS 3910-3 Safety Education (3 + 0)

This course provides the student with knowledge about accident prevention in many areas: home, school, physical and recreational activities, traffic and community.

HPS 3990-1-3 Field Experience in Human Performance and Sport (0 + 2-4-6)

Prerequisite:

permission of instructor

Provides opportunities for students to gain practical experience assisting in the conduct of sports-type and recreation activities with community agencies, schools and the college. Includes K–12 licensure.

HPS 4200-3

Community Fitness Testing and Program Planning (2 + 2)

Prerequisites:

HPS 3340 (HPS 4680 suggested)

This course is designed to provide the student with the opportunity to conduct laboratory fitness assessments, evaluate test results and develop exercise prescriptions. In addition, the student will be expected to become knowledgeable about the promotion and marketing of fitness programs.

HPS 4500-3

Motor Learning and Development (3 + 0)

Prerequisite:

Completion of Level I General Studies requirements

The focus of this course will be an examination of motor learning principles and their role in the developmental stages of individuals. Emphasis is placed on the various aspects of perceptual motor control and environmental factors affecting skill acquisition.

HPS 4600-3 Prerequisites:

Organization, Administration and Curriculum of Human Performance and Sport (3 + 0)

senior standing, HPS 1600, and satisfaction of Level I and II General Studies course require-

This course is designed to teach curriculum design and concerns and the organizational and administrative policies and procedures for developing, conducting and administering programs in human performance. This is a senior experience course and is required of HPSL teaching preparation majors (K-6, K-12, Secondary) and Sport & Allied Fields concentration. (Senior Experience)

HPS 4620-3 Prerequisite:

Adapted Human Performance and Sport Activites (2 + 2)

: completion of Level I General Studies course requirements

This course teaches students how to adapt human performance and sport activitis to the physically and mentally imparied in school and community settings. This course offers 30 hours of field experience in selected setting for HPS majors and minors.

HPS 4660-3

Legal Liability for Physical Educators, Coaches and Administrators (3 + 0)

Prerequisites:

some coaching and/or formal courses (six hours) in human performance and sport, leisure studies, or health

This is an elective course designed to inform physical education teachers, coaches, and administrators of the implications and responsibilities of a legal nature involved in school or recreation activity and competitive programs. The purpose of the course is to prepare teachers, coaches, athletes and/or administrators to deal with and understand basic concepts and trends of law.

HPS 4680-3

Advanced Exercise Assessment Techniques (2 + 2)

Prerequisite:

HPS 3340

This course is designed to acquaint the student with the maintenance of exercise laboratory equipment and its use in evaluating physiological capabilities during exercise. Provides experience with physiological testing using laboratory equipment, as well as on-site visitations to other laboratory settings.

HPS 4750-3

Upper Body Injury Rehabilitation (2 + 2)

Prerequisites: Corequisite:

HPS 3830, HPS 3850

orequisite: HPS 4751

This course will address the fundamental aspects and components of upper body athletic injury rehabilitation programs. Emphasis will be placed on design and implementation of specific therapeutic exercise programs. This is one of the sequential professional preparation courses in the Athletic Training Education Program.

HPS 4751-2 Athletic Training Clinical Experience V (1 + 10)

Prerequisite: HPS 3851 Corequisite: HPS 4750

This is a clinical course for athletic training majors, addressing specific athletic training clinical proficiencies. This course is the fifth in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the clinical skills applied to the rehabilitation techniques involved with upper and lower body injuries.

HPS 4770-2 Lower Body Injury Rehabilitation (1 + 2)

Prerequisite: HPS 4750 Corequisite: HPS 4771

This course will address the fundamental aspects and components of lower body athletic injury rehabilitation programs. Emphasis will be placed on design and implementation of specific therapeutic exercise programs. This is one of the sequential professional preparation courses in the Athletic Training Education Program.

HPS 4771-2 Athletic Training Clinical Experience VI (1 + 10)

Prerequisite: HPS 4751 Corequisite: HPS 4770

This is a clinical course for Athletic Training majors, addressing specific athletic training clinical proficiencies. This course is the sixth in the sequence of six clinical courses, each to be taken with the required corequisite. The emphasis of this course is on the mastery of pertinent practical skills directly related to the athletic training profession as designated by the

Joint Review Committee on Athletic Training.

HPS 4840-2 Comparative Fitness Programs (2 + 0)

Prerequisites: HPS 1640, HPS 3340

This course explores (1) current trends, issues, and environments in adult fitness management, (2) comparison of selected popular fitness and evaluation programs and, (3) certification programs and employment available for adult fitness personnel. This course will provide opportunities for onsite visitations, as well as practical experience with different fitness programs.

HPS 4850-3 Seminar in Athletic Training (3 + 0)

Prerequisites: HPS 4750, senior standing, completion of all major courses except for HPS 4770

This course is designed to synthesize athletic training knowledge and proficiencies with athletic health care administrative concerns. Additionally, the application of professional development issues, professional behaviors, and research within the field of athletic training will be examined. This is the capstone course for athletic training majors. (Senior Experience)

HPS 4870-10 Internship for Athletic Training (1 + 27)

Prerequisites: senior standing, completion of all courses in major curriculum, 2.75 GPA, and satisfaction of

Level I and II General Studies course requirements

This internship is designed for Athletic Training Emphasis majors to provide experience in both a clinical and competitive setting. Graded as Satisfactory/Unsatisfactory. (Senior Experience)

HPS 4880-10 Internship for Adult Fitness (1 + 27)

Prerequisites: senior standing, completion of all courses in the major curriculum, 2.75 GPA, and completion

of Level I and II General Studies course requirements

This course is designed for adult fitness majors to provide a practical experience in the adult

fitness field. Graded as Satisfactory/Unsatisfactory. (Senior Experience)

HPS 4890-10 Internship for Sport Industry Operations (1+27)

Prerequisites: senior standing, major in HPS, completion of all courses in the major curriculum, 2.75 GPA,

completion of Level I and II General Studies course requirements

This course is designed for majors in human performance and sport who elect to have a practical experience in the sport industry operations concentration. Graded as Satisfactory/

Unsatisfactory. (Senior Experience)

HUMAN PERFORMANCE AND SPORT SKILLS (HSL)

HSL 1010-2 Skills and Methods of Teaching Tumbling and Gymnastics (1+2)

This course is intended for HPS majors and minors. Students have opportunities to experience principles and applications for teaching basic tumbling and gymnastics skills appropriate for K-12 settings. Educational gymnastics and artistic gymnastics will be taught. Rhythmical gymnastics will be covered as well as spotting, progressions and equipment usage and maintenance.

HSL 1020-2 Skills and Methods of Teaching Weight Training (1+2)

This course is intended for HPS majors and minors. It is designed to acquaint the student with the basic skills, methods and techniques necessary to be a competent exercise leader in the area of resistance training. Emphasis will be placed on understanding selection of appropriate teaching progressions.

HSL 1030-2

Skills and Methods of Teaching Physical Activities for Special Populations (1+2) This course is intended for HPS majors and minors. The emphasis of this course is on sport and motor programs for special populations and programs related to those individuals with physical, mental, or multiple disabilities as well as the aging population. This course will include opportunities for experience in designing, implementing and evaluating existing sports and physical activity programs for the disabled.

HSL 1040-2 Skills and Methods of Teaching Activities for the Young Child (1 + 2)

This course is intended for HPS majors and minors. Activities for the Young Child is a course designed to acquaint students with theories, rationale, activities and materials used to teach physical activities to children at the elementary school level.

HSL 1050-2 Skills and Methods of Teaching Rhythms for the Young Child (1 + 2)

This course is intended for HPS majors and minors and provides the opportunity to gain a basic knowledge of rhythmical activities for use with children in the elementary school grades.

HSL 1060-2 Skills and Methods of Teaching Activities for Secondary Students (1 + 2)

This course is intended for HPS majors and minors and is designed to acquaint students with theories, rationale, activities and materials used to teach physical activities currently being taught to students at the sceondary school level. Activities include, but are not limited to, Ultimate Frisbee, Inline Skating, Racquetball, and Wallyball.

HSL 1100-2 Skills and Methods of Teaching Team Handball, Lacrosse and Basketball (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach or conduct the sports of Team Handball, Lacrosse and Basketball.

HSL 1110-2 Skills and Methods of Teaching Soccer, Volleyball and Softball (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach or conduct the team sports of soccer, volleyball and softball.

Skills and Methods of Teaching Flag Football, Field Hockey, and Floor Hockey (1+2)HSL 1130-2

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach or conduct the team sports of Flag Football, Field Hockey and Floor Hockey.

Skills of Swimming, Water Safety, and Water Exercise (1 + 2)HSL 1200-2

This course is intended for HPS majors and minors. It is designed to develop the skills of personal safety in the aquatic environment, efficient movement through and in the water in both swimming styles and in water fitness activities, as well as a basic level of awareness of safety of others.

HSL 1210-2 Skills and Methods of Teaching Archery, Track, and Field, and Fitness (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach or conduct the individual sports of Archery, Track and Field, and Fitness.

Skills and Methods of Teaching Bowling, Golf, and Recreational Activities (1 + 2) HSL 1220-2

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to effectively teach or conduct the sports of Bowling, Golf, and Recreational Activities.

HSL 1230-2 Skills and Methods of Teaching Tennis, Pickleball, and Badminton (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques nécessary to teach and conduct the sports of Tennis, Pickleball, and Badminton.

HSL 1240-2 Skills and Methods of Teaching Wrestling, Personal Defense, and Yoga (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop the skills, strategies and presentation techniques necessary to teach and conduct the activities of Wrestling, Personal Defense, and Yoga.

HSL 1250-2

Adaptive Aquatic Programs (1 + 2) current ARC WSI certification Prerequisite:

This course acquaints the student with various adapted aquatic programs and methods of teaching the mentally and/or physically disabled. The course leads to Red Cross Adaptive Aquatic certification.

HSL 1300-2 Skills and Methods of Teaching Country Western and Folk Dance (1 + 2)

This course is intended for HPS majors and minors. It is designed to prepare students to teach both dance forms in a variety of settings. This course will acquaint students with the various movement patterns used in each dance form, as well as prepare them to instruct students at various grade levels and in recreational settings.

HSL 1310-2 Skills and Methods of Teaching Modern and Jazz Dance (1+2)

This course is intended for HPS majors and minors. It is designed to prepare the student to teach jazz or modern dance at the beginning or intermediate level and to select appropriate musical accompaniment for the class.

HSL 1330-2 Skills and Methods of Teaching Improvisation and Choreography (1 + 2)

Prerequisites:

minimum 1 semester ballet, jazz or modern dance or instructor's permission and 2 years of dance experience

This course presents the basic elements of dance. Students explore and create dance movements in order to arrive at finished choreographic studies and they will develop techniques and methods related to improvisation and choreography that will enhance their teaching skills.

HSL 1340-2 Skills and Methods of Teaching Rhythms for Special Populations (1 + 2)

This course emphasizes skills for the development, implementation and evaluation of rhythmic activities for the handicapped in recreation and rehabilitation programs. The course will also cover a variety of adapted dance and movement techniques for the auditorially and visually impaired, emotionally disturbed, physically handicapped, mentally handicapped and the aged.

HSL 1400-2 Skills and Methods of Teaching Camping, Backpacking and Orienteering (1 + 2)

This course is intended for HPS majors and minors. It is designed to develop skills, techniques and basic leadership principles needed for camping, backpacking and orienteering.

HSL 1410-2 Skills and Methods of Teaching Teambuilding, Initiative & Ropes Course Activities (1 + 2)

This course is intended for HPS majors and minors. It is designed to provide an overview of the philosophy and basic skills of team building, initiative activities, and the use of ropes courses in physical education and recreational settings. An opportunity for hands-on participation will be included.

HSL 1420-2 Activity and Fitness Programs for the Elderly (1 + 2)

This course emphasizes skills for the development, implementation and evaluation of activities and fitness programs for older persons in various settings. This course will include opportunities for observation and involvement with various recreation agencies or health care facilities in the Denver area.

HSL 1430-2 Camping for Special Populations (1 + 2)

This class will provide information concerning methods and techniques applicable to camps for special populations and to outdoor recreational outings.

HSL 1440-2 Skills and Methods of Teaching Stress Management (1 + 2)

This course is designed to provide the prospective teacher with an understanding of the elements of stress induced conditions, as well as provide a means by which students in this class will become capable of teaching their students how to effectively relieve stressful conditions.

HSL 1500-2 Human Performance, Sport and Leisure Studies: Variable Topics (1 + 2)

These courses are required for human performance and sports and leisure studies majors and minors to meet departmental skill requirements in various physical behaviors. They also cover methods of teaching and field experience assignments. All HSL 1500 courses include a cognitive component with written and reading assignments, testing, and assigned laboratory activities.

HUMAN SERVICES

HSP 1010-4 Introduction to Human Services and Community Resources (4 + 0)

This class provides an overview of the helping professions and working within helping agencies. Students examine the attitudes, values and skills essential to becoming an effective Human Services Professional. Factors essential to those working in the helping professions including working with various cultural groups, understanding and interacting with populations having infectious diseases (especially HIV infection), ethics, and political involvement of agencies are important components of the course. Students completing HSP 1010 will have completed eight clock hours of HIV/AIDS education required for certification as substance abuse counselors.

HSP 1040-4 Applied Behavior Analysis (4 + 0)

This course will provide the student with an understanding of the scientific method and the application of the principles and technology of behavioral analysis.

HSP 1110-4 Introduction to Disabilities (4 + 0)

This course enables students to acquire an appreciation for and sensitivity towards the capabilities, limitations and challenges of individuals with disabilities throughout their life span.

$HSP\ 1470-3 \qquad Addictive\ Experiences:\ Sex,\ Drugs,\ Rock\ and\ Roll\ (3+0)$

How much is too much in the addictive lifestyles in contemporary America? This course provides an examination of the balance between theories of addiction and the addictive experiences. It also focuses on the process of developing healthy habits and nonaddictive lifestyles. This is an elective course for students NOT pursuing a drug/alcohol emphasis and for nonmajors. It is not counted as a required elective for drug/alcohol emphasis students.

HSP 2010-3 Principles of Nonprofit Organization Administration (3 + 0)

This course is designed to provide the student with a general knowledge of the creation, organization and systems administration of a wide variety of nonprofit organizations.

HSP 2020-4 Prerequisite:

Small Group Dynamics: Theory and Experience (4+0)

HSP 1010

This course introduces the basic theories of small groups with experiential learning experiences to develop skills and strategies for effective group participation and leadership. The universality of feelings and concerns are shared so that one can recognize the dynamics of interpersonal interaction, predict dynamics accurately, demonstrate effective leadership skills and learn to exercise control of the group process and interaction in small group situations.

HSP 2030-4

Theory and Practice of Counseling (4+0)

Prerequisite: HSP 10

This course familiarizes students with major theoretical approaches to psychotherapy and to basic interview techniques common to most types of psychotherapy. Students examine and practice effective interviewing skills and learn how to gather essential information from clients. The main theories in psychotherapy are also examined.

HSP 2040-4

Family Systems (4 + 0)

Prerequisites: HSP 1010, HSP 1040 and HSP 2030

This class provides a brief review of family systems and the roles of family members in traditional and non-traditional families. The theoretical basis for family therapy modalities which serve as guidelines for therapy are described.

HSP 2050-8 Human Services Practicum I (1 + 20)

Prerequisites: HSP 1010, HSP 1040, HSP 2020, HSP 2030, HSP 2040, and permission of instructor

This is a 15-hour seminar and a 300-hour practicum that will provide beginning field experience in a human services agency or institution. The student will participate and receive training in the fundamentals of counseling, evaluation, treatment, group dynamics, and interpersonal relationships. The student will learn to perform appropriately to increase skills and

effectiveness as a human services student.

HSP 2060-8 Human Services Practicum II (1 + 14)

Prerequisites: HSP 1010, HSP 1040, HSP 2020, HSP 2030, HSP 2040, and permission of instructor

This is a 15-hour seminar and a 300-hour practicum that provides professional experience in a human services institution. Practicum II differs from Practicum I in that the student will be in a different agency setting, demonstrate professional competencies and complete an agency analysis. The student will gain experiences in in-takes, counseling, evaluation, treatment, group dynamics, interpersonal relationships, documentation, multicultural counseling and agency analysis for effective functioning as a human services professional. The student is

expected to choose his or her concentration for this field placement.

HSP 2110-3 Inclusive Community Services for People with Disabilities (3 + 0)

This course prepares students to facilitate the successful integration of people with significant disabilities into community employment, education, living and recreation activities. It pres-

ents strategies for effective service design and implementation.

HSP 3000-3 Community Change in Human Services ((3 + 0)

Prerequisite: HSP 1010 or permission of instructor

This course reviews the theories and techniques of organizing groups to promote change in the community, and the role community organizers and other human service professionals play in community change. The course examines several distinct contexts for change and why and how change occurs or fails to occur. Strategies and tactics for promoting change are

also included.

HSP 3040-3 Brief Therapy for Couples (3 + 0)

Prerequisite: HSP 2040 or permission of instructor

Students will study the counseling of persons involved in emotionally intimate relationships from the perspective of childhood experiences with parents or other primary caretakers. Topics covered will include the influence on the clients of emotional abandonment, childhood wounds, male and female issues, and the tendency to project unmet childhood needs onto adult relationships. Counseling interventions to improve the communication skills of couples

will be addressed.

HSP 3210-3 Organizational Stability for Nonprofits (3 + 0)

Prerequisite: HSP 2010 or permission of instructor

This course will examine the internal and external factors that affect short and long term function of the nonprofit organization. Special emphasis will be placed on organizational life

cycles and use of strategic planning to ensure long-term sustainability.

HSP 3220-2 Conflict Resolution and Decision-Making (2+0)

Prerequisite: at least junior standing or permission of instructor

This course will focus on the nature, analysis, and management of conflict and the use of

negotiating skills in leadership situations.

HSP 3230-4 High Risk and Offender Youth (4 + 0)

Prerequisites: HSP 2050, HSP 2060, or permission of instructor

This course is designed to provide an overview and analysis of differential theory and approaches to working with high risk and offender youth who are alcohol and drug involved. Special emphasis will be given to the role of community, family and youth-specific risk and protective factors. Prevention of not only alcohol and drug problems, but other serious contemporary youth issues such as violence, teen pregnancy, sexually transmitted diseases, suicide, and school drop-out will be addressed. An overview of multiple and sometimes fragmented service delivery systems will be provided. Special topics will also include multicultural issues, intervention techniques, and innovative alcohol and drug treatment approaches found

to be particularly effective with this population.

HSP 3260-2 Survey of the High Risk Youth Integrated Services and Treatment Network (2 + 0)

HSP 3230 or permission of instructor Prerequisite:

This is an advanced course designed to introduce the potential youth advocate counselor to the range of issues, services and systems involved in the care and treatment of high risk youth including: alcohol and drug treatment; mental health; education; social services; law enforcement; vocational/employment; and others. The course focus is on understanding and building interdisciplinary partnerships on behalf of youth in a variety of professional contexts. An emphasis is on learning to work effectively across and between systems as well as within them.

HSP 3330-3 Ethical and Legal Issues in the Helping Professions (3 + 0)

Prerequisites: HSP 2030, ENĞ 1010, ENG 1020

This course provides a basic understanding of the legal and ethical issues in the human services profession and provides an opportunity for students to apply standards from the code of ethics as well as laws in situations that often arise in agencies providing case management and counseling.

HSP 3400-3 Pharmacology of Drugs and Alcohol (3 + 0)

satisfaction of National Science General Studies requirements including BIO 1000 or permis-Prerequisite:

This is a course in the composition, classification, effects, uses, and abuses of drugs and alcohol. Students learn the ways that psychoactive substances impact the central nervous and immune systems. Related social and political issues are integrated into the course content.

HSP 3410-3 Addiction Family Counseling/Advanced Topics (3 + 0)

Prerequisite: HSP 2040 or permission of instructor

This course introduces students to the range of theory and application related to methods of intervening therapeutically with the alcohol and drug involved family. Critical elements of understanding the needs of this population are multicultural and structural diversity in family systems, adolescent substance abuse and its impact on the family, maternal substance abuse, and incorporating a strengths-based approach to family treatment planning.

HSP 3430-3 Addictive Behaviors (3 + 0)HSP 1040 and HSP 2030 Prerequisites:

This course provides a detailed study of specific addictive behavior patterns and the most common treatment methods. The range of addictions studied includes a variety of non-substance using behaviors such as gambling and eating disorders as well as addictions involving substances. This course will help students clarify a theory of addiction, gain knowledge about the etiology of specific addictions and be introduced to current treatment approaches utilized in the field.

HSP 3450-3 Crisis Intervention (3 + 0)Prerequisites: HSP 2030 and HSP 2040

This course focuses on crisis intervention. Course work is designed to give the student an opportunity for competencies development, and increased understanding of emergency procedures and therapeutic interventions.

HSP 3460-2 Addiction, Immunity, and Infectious Diseases (2+0)

Prerequisite: HSP 2030 or permission of instructor

This course emphasizes diseases and health issues including communicable and sexually transmitted diseases that are most likely to affect addicted individuals. This courses addresses health issues found among individuals who might abuse mind altering chemicals. Students perform risk assessments and prepare educational materials for clients. Satisfactory completion of this course meets the infectious disease course requirement for Colorado Certified Addiction Counselor I (CAC I).

HSP 3470-4 Counseling the Substance Abuser (4+0)

HSP 1010 and HSP 2030; or permission of instructor Prerequisites:

This course is specifically oriented to assessing and counseling the addicted client. Coursework ins designed to provide the trainee with knowledge of and experience in applying the fundamentals of research, evidence-based treatment, client assessment, treatment planning, client records and individual counseling skills. Satisfactory completion of the course will met the requirements for Principles of Addiction Treatment, Client Record Management, and Addiction Counseling Skills for Colorado Addiction Counselor Certification and Domestic Violence Counselor Certification.

HSP 3480-2 Applied Counseling Skills (2 + 0)

Prerequisite: HSP 2030 or permission of instructor

Restriction: This course prepares students to provide individual counseling in human behavioral health services. The course will review counseling techniques and provide an opportunity to practice intervention skills with other students. The course focuses on demonstrating and receiving feedback on level two counseling skills. Satisfactory completion of the course will meet the Colorado Certified Addiction Counselor III (CAC III) advanced course requirement and may

also be applied toward Domestic Violence Approved Provider required training.

HSP 3490-4 Multicultural Issues in Human Services (4 + 0)

Prerequisites: HSP 2030 and satisfaction of Level I General Studies course requirements

This course is designed for those who are intending to work in the delivery of human services especially in the assessment, communication, diagnosis, and conducting of counseling and therapy. The course examines the research that involves the interaction of counselor and client in individual, group, and family therapy. (General Studies—Level II, Social Sciences;

Multicultural)

HSP 3500-3 Domestic Violence: Patterns of Relationship Abuse (3 + 0)

Prerequisites: HSP 2030 and HSP 2040

The exploration of behavior patterns within families where domestic violence occurs is examined through the study of victims, perpetrators, and children within the family. Socialization patterns, developmental stages, and psychopathological states that impact on violence between partners are explored, along with treatment issues and approaches for each person.

HSP 3510-3 Development and Administration of Volunteer Programs (3 + 0)

Prerequisite: HSP 2010 or permission of instructor

Volunteerism is a growing phenomenon that continues to change the face of American Society. Each year, close to 100 million Americans report some type of volunteer activity. This course will examine the history, growing trends, and future of the volunteer sector. Students will be provided with a basic understanding of the role, responsibilities, and obligations in

the supervision and management of volunteers.

HSP 3560-2 Motivational Interviewing (2 + 0)

Prerequisite: HSP 2030 or permission of instructor

This course describes the change process in clients and prepares the counselor to identify readiness for change. Students are taught interviewing skills which are specific to various stages of recovery and relapse. The focus of the process taught is to minimize or avoid resistance and to promote essential changes in substance abuse or domestic violence clients.

HSP 3580-1 Therapeutic Resistance (1 + 0)

Prerequisite: HSP 2050 and at least junior standing; or permission of instructor

This course provides students with a clear understanding of therapeutic resistance in the counseling process from both the perspective of the client and the counselor. Various factors that contribute to therapeutic resistance are discussed along with models to practice overcoming clinical resistance. Satisfactory completion of this course meets the training requirement for Colorado Certified Addiction Counselor III (CAC III) and the resistant cli-

ent course requirement for Colorado Domestic Violence Approved Counselor.

HSP 3590-1 The Resistive Adolescent Client (1+0)

Prerequisite: HSP 3230 or permission of instructor

This is an advanced course intended to instruct the human services professional who counsels youth to understand and apply principles related to working with resistance. This course will focus on counseling with resistive youth in an involuntary treatment setting. Students will learn about motivational approaches to dealing with anger and understanding cultural barriers to effective counseling. Various models will be utilized and demonstrated including motivational interviewing and strengths-based counseling. This course meets the resistive client mandatory training requirement for CAC II and III for Colorado Addictions Counselors.

HSP 3600-2 Domestic Violence: Perpetrators of Abuse (2 + 0)

Prerequisites: HSP 2030 and 2040

This course explores and describes the behaviors and attitudes of those who abuse others, the cycle of violence, intergenerational violence, and the impact of violence on the lives of perpetrators and victims. Students will learn about diagnostic tools to determine lethality and intervention therapy.

HSP 3610-3 Financial Accountability and Organizational Control in Nonprofit Organizations (3 + 0)

Prerequisite: HSP 2010 or permission of instructor

The course will include the skills needed to properly manage financial resources and organizational controls in a variety of nonprofit organizations. Topics will include financial recordkeeping systems and statements, budgeting, tax compliance, cost control, and program accountability and evaluation.

HSP 3620-2 Prevention Generalist Workshop (2 + 0)

HSP 1010, HSP 1040, HSP 2020, HSP 2030 and HSP 2040 or permission of instructor Prerequisites:

This class provides the student with information about attitudes of communities and legislative and regulatory agencies towards substance use/abuse. Varying theoretical bases for prevention programs are presented.

HSP 3710-3 Research Methods for Human Services (3 + 0)

at least junior standing; MTH 1210 or PSY 2310 or permission of instructor Prerequisites:

This course allows students to gain the basic competencies and knowledge necessary to evaluate the research of others and to plan and conduct their own research in the human services and related fields. Students will learn the philosophy, tools, and procedures of scientific inquiry and the concepts, assumptions, and terminology of the scientific method. Students will examine the role of previous research and theory in planning research studies and how theory, experience, observation, and related literature lead to hypothesis formulation.

HSP 3750-4 Holistic Health and High-Level Wellness (4 + 0)

Prerequisite: HES 2750 or permission of instructor

This course will give the student the opportunity to explore and evaluate holistic health and high level wellness on a personal as well as a professional level. Students will be introduced to the emerging paradigm of health and to a holistic approach towards accessing wellness. The course will include current theory and experiential methods.

HSP 3810-3 Fundraising Strategies for Nonprofit Organizations (3 + 0)

Prerequisite:

HSP 2010 or permission of instructor The course will examine the various strategies used by nonprofit organizations to raise funds for operating, program, and capital needs. Topics explored include direct mail, planned giving, individual solicitation, workplace giving, special events, and major gift campaigns.

HSP 4030-3 Grant Proposal Research and Writing for Nonprofit Organizations (3 + 0)

Prerequisite:

HSP 2010 or permission of instructor

The course presents an in-depth look at all aspects of grantwriting of private sector proposals. Emphasis is placed on successful grantwriting strategies and the completion of a full grant proposal. The emerging practice of social venture philanthropy and its effect on grantmaking will be examined.

HSP 4040-3 Cognitive Behavior Therapy (3 + 0)

Prerequisites: HSP 1040 and HSP 2030 or permission of instructor

This course examines the early and current development of cognitive behavior therapy as pioneered by Drs. Aaron Beck and Albert Ellis. Cognitive behavior has become one of the most widely used therapies during the last two decades. Students will apply C.B.T. by examining thoughts and beliefs connected to moods, behaviors, physical experiences, and events.

Gerontology for Human Service Professionals (2+0)HSP 4100-2

Prerequisites:

HSP 1010, HSP 2030 and HSP 2040

This course focuses on the ways in which human services professionals can provide counseling for aging persons. This is a skills-based course that uses the basic clinical skills learned in interviewing classes but expands these skills toward working with the aged. The course will also give students an opportunity to work with aging individuals in a human service capacity. The major developmental aspects of aging will be reviewed.

HSP 4110-2 Enabling People with Disabilities (2 + 0)

Prerequisite:

HSP 1110 or permission of instructor The course is designed to provide the student with an understanding and awareness of people with disabilities. The student will be introduced to the concept of social role valorization and the implications of this concept for planning services for people with disabilities.

HSP 4200-2 Child Abuse and Neglect (2 + 0)

Prerequisites: HSP 2030 and HSP 2040

This course deals with an historical understanding of child abuse, neglect and sexual exploitation, including definitions, dynamics, effects on the victim, how society intervenes, and prevention methods.

HSP 4250-2 Counseling the Gay or Lesbian Client (2 + 0)

Prerequisite:

The rate of abuse of psychoactive substances among gays and lesbians is significantly higher than in the rest of the population. Violence, while under the influence, brings these individuals into counseling. The issue of homosexuality in the greater society must be considered when counseling these individuals. This course addresses the lifestyle patterns of homosexuals and the relationship to substance abuse and violence treatment.

Gender Issues in Treatment and Recovery (1+0)HSP 4280-1

Prerequisite: HSP 2030

The socialization of males and females affects the use/abuse of psychoactive substances. A high percentage of persons in treatment for domestic violence also have underlying substance abuse issues. This class addresses gender-related treatment and recovery considerations.

HSP 4290-1 PTSD Counseling (1+0)

HSP 2030 Prerequisite:

Post-Traumatic Stress Disorder (PTSD) occurs among people who have experienced violence, whether the cause is war, child abuse, or domestic violence. Eighty-five percent of people with PTSD abuse psychoactive substances. This course explores the causes of PTSD, the symptoms, and treatment. The relationship of the disorder to substance abuse and violence in the form of domestic disturbances is studied along with intervention and treatment.

HSP 4300-1

Emotional Response to Terrorism (1+0) PSY 1001, HSP 2030, and at least junior standing; or permission of instructor Prerequisite:

This course is designed to explore the impact of increased terrorist events worldwide. The course prepares students to respond to psychological and physical terrorist events. Topics

covered in this class are: preparedness, intervention and mitigation.

HSP 4310-3 Human Resource Development in Nonprofit Organizations (3 + 0)

HSP 2010 or permission of instructor Prerequisite:

The course will provide students with a comprehensive study of the use of human resources in a variety of roles within nonprofit organizations, including hiring and retention, staff

development of evaluation, and labor management issues.

HSP 4320-4 Psychopathology and the Mental Health Clinician (4 + 0)

Prerequisites: HSP 2050, HSP 2060 or permission of instructor

This course introduces and describes psychopathology nomenclature so that students will be able to recognize psychopathology. Biological, psychosocial, and sociocultural etiological perspectives of psychopathology will be discussed. The course will introduce the basic treatment approaches and critically analyze the advantages and disadvantages of mental disturbance

labeling and their societal implications.

HSP 4360-4 Advanced Intervention Techniques (4 + 0)

HSP 2030 and HSP 2040; HSP 2050 and HSP 2060 Prerequisites:

This is an advanced therapeutics course designed for the human services professional with emphasis on the correct assessment of dysfunctional behaviors and their indicated treat-

ment/interventions.

HSP 4490-1-4 Contemporary Issues in Human Services: Variable Topics (1-4 + 0)

at least junior standing or permission of instructor Prerequisite:

This is a variable titled course focusing on current issues and trends in the field of human services. The course is designed to provide the human services professional with an opportunity to explore new or alternative modalities in assessment, intervention, and treatment of dysfunc-

tional behaviors. This course may be repeated for credit under different topics.

HSP 4520-3 **Grief Counseling (3 + 0)**

Prerequisite: HSP 2030 or permission of instructor

Loss is a natural consequence of living. This is a skills-based class that deals with the grief process as it relates to life changes, divorce, aging, illness, and death. Students will learn spe-

cific strategies for counseling those who have experienced loss.

HSP 4540-2 Youth, Drugs and Gangs (2 + 0) (CJC 405B, EDS 4540)

HSP 2030 and HSP 2040 Prerequisites:

Child abuse, neglect, and substance abuse are underlying issues for gang members. This course explores the reasons youth are attracted to and join gangs and the correlation between psychoactive substances and violence. Credit will be granted for only one prefix: HSP, CJC or EDU.

HSP 4660-3 Clinical Supervision in Human Services (3 + 0)

Prerequisite: HSP 3470 and HSP 3480; or permission of instructor

This course will provide students with theoretical principles and practical application of clinical supervision in the human services field. The course will address specific regulatory requirements of clinical supervision. Evidence-based support for counseling and clinical supervision will be addressed. Satisfactory completion of this course meets the Clinical Supervision course requirement for Colorado Addiction Counselor III (CAC III) certification and the requirement for Domestic Violence Counselor Supervisors.

HSP 4710-3 Critical Issues for Nonprofits (3 + 0)

Prerequisites: HSP 3210, HSP 3810 and HSP 4030; or permission of instructor

The course investigates and analyzes the critical economic, political, and social issues affect-

ing the nonprofit sector.

HSP 4790-12 Professional Internship (2 + 30)

Prerequisites: Human Service

Human Services major with senior standing and/or approval of department chair and satisfaction of all Level I and Level II General Studies course requirements; HSP 2050 or permis-

sion of instructor

The professional internship is the culmination of training for the bachelor's degree in human services. The internship is distinguished from work activities in that it is the student's responsibility to demonstrate that some project has been completed above and beyond the usual

requirements of a job. (Senior Experience)

HSP 4800-3 Designing the 21st CenturyNonprofit Organization (3 + 0)

Prerequisite: HSP 3210; HSP 3810 or HSP 4030; or permission of instructor

In this course students will participate in designing a model nonprofit organization (NPO) through assessment of community needs and in consideration of current economic and political factors and philanthropic trends. Students will design program activities, determine staffing and human resource needs, identify funding resources and marketing strategies and establish financial parameters of the NPO based on its mission and values.

INDUSTRIAL DESIGN

IND 1010-4 Introduction to Woodworking (2 + 4) (ART 1300)

An introductory course designed to give the student basic information about woods, their selection and use, and to provide the basic skill development in the use of selected woodworking tools, machines and practices. Finishing and preservation of wood will also be studied and utilized. Credit will be granted for only one prefix: IND or ART.

IND 1030-2 Finishing Materials and Processes (1 + 2)

A study of materials, processes and procedures used in the finishing of industrial products. Includes preparation, abrasives, natural and synthetic coatings, chemical treatments used in the woods, metals, and plastics industries.

IND 1130-3 Introduction to Plastics (1+4)

Corerequisite: IND 1430 or IND 1470

This course is an introduction to the basic manufacturing processes and techniques used in the plastics industries. A variety of forming, casting, and reinforced plastic processes will be examined.

IND 1200-2 Introduction to General Metals: Cold Metals (1 + 2)

Corequisite: IND 1430 or IND 1470

A combination lecture/laboratory course covering machine metals, sheet metal and bench metal areas. Emphasis is on a student-designed projects, forming, cutting, and finishing.

IND 1220-2 Introduction to General Metals: Hot Metals (1 + 2)

Corequisites: IND 1430 or IND 1470

A combination lecture/laboratory course covering foundry, forging, heat treating and welding processes. Includes pattern-making, core making, cutting, forming, and finishing.

IND 1430-2 Industrial Drawing (1+2)

This course is an introduction to industrial drawing through sketching and the use of basic drawing instruments including machines. Topics include lettering, drawing symbols, pictorial drawing, geometric construction, orgthographic projections, and dimensioning.

IND 1470-3 Perspective Drawing (1 + 4)

This course introduces the student to the basic concepts and skills used in industry to communicate ideas and to produce perspective drawings. Students will develop drawing skills which will represent objects as the eye sees them. The students will be subjected to a study in visual reality graphic form; visual impact; and the logic and proof of what we see.

IND 2450-3 Beginning Industrial Design (1 + 4)

Prerequisites: ART 1101, ART 1141, ART 1501, IND 1010, IND 1030, IND 1130, IND 1200, IND 1220, IND

1430, and IND 1470

In both a laboratory and studio environment, fundamental design principles will be applied to a variety of three-dimensional forms, products and structures. Materials, tools, techniques, human factors, forms, and visual aesthetics as related to products and their function, will be a consideration of the assigned individual student creative project solutions.

IND 2690-2 Alternate Energy and Transportation (2 + 0)

This is a lecture course, designed to take a comprehensive look at the alternate energy sources and systems; it includes a study of modes of powering vehicles by other than fossil fuel and

alternatives to private vehicle transportation.

IND 2810-3 Technology, Society and You (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics requirement and either ENG 1010 or the Level I Com-

munication requirement

This course is designed to focus on the impacts and implications technology has or will have on society. The course presents students with the opportunity to study and develop an understanding of how technology affects people, families, education, economics, politics, and ethics. History and future implications will also be studied. Emphasis will be placed on people's understanding of industrial materials, processes, and control of technology. (General Studies—Level

II, Social Sciences) (GT-SS3)

IND 2830-2 Manufacturing Organization and Processes (2 + 0)

This course is combination lecture/lab course outlining the internal organizational structure, function and operation of a variety of manufacturing industries. Laboratory experiences will focus on commonly shared processes in raw materials and production of jigs and fixtures.

IND 3100-4 Advanced Plastics (2 + 4)

Prerequisite: IND 1130

An in-depth study, lecture and lab, of the materials, processes, and procedures used in the

plastics industries.

IND 3210-4 Advanced Metalworking (2 + 4)

Prerequisites: IND 1200 and IND 1220

Advanced study and laboratory experience in metal fabrication, including sheet and ornamental metal, foundry, welding, and machine. Introduction to the fundamentals of numerical-

controlled production.

IND 3330-3 Wood Furniture Design I (1 + 2)

Prerequisite: IND 1010

Combination lecture/laboratory course emphasizing historical aspects of production wood furniture construction and design. Based upon the mass production orientation of industrial design, the focus will be on furniture design styles from the Arts and Crafts era to present.

IND 3410-3 Computer Aided Drafting for Industry (1 + 4)

Prerequisite: IND 1430 or permission of instructor

This course is an introduction to the principles of Computer Aided Drafting (CAD) and an understanding of the DOS (Disk Operating System). The student will learn the menu pages that contain all of AutoCAD's commands and practices. The production of lines, arcs, points,

and polygons will be studied.

IND 3450-3 Intermediate Industrial Design (1 + 4)

Prerequisite: IND 2450

Students will produce functional aesthetic designs of consumer products for industry, with emphasis placed upon relevance of materials to the manufacturing method of the design

concept in application. Materials of emphasis are wood, metals, and plastics.

Industrial Design Model Making (1 + 4) IND 3480-3

Prerequisite: IND 1010 and IND 1130

In a studio and laboratory environment, students will gain experience with a variety of hand tools, materials and techniques, to develop scale models. Students will learn to construct study models using appropriate materials and learn to use the model to evaluate and com-

municate product design concepts.

Digital Photography (1+4)IND 3530-3

This course is designed to provide students with a variety of experiences with digital imaging

using computer software and digital cameras.

IND 3660-3 Computer Aided Industrial Design (1 + 4)

Prerequisites: IND 3410

> In both a laboratory and studio environment, students will gain experience with the IBM computer to develop the product as a three-dimensional object in space and to generate ren-

dering of design concepts.

IND 3770-3 Wood Furniture Design II (0 + 6)

Prerequisites: IND 1010 and IND 3330

A studio course employing projects to address aspects of furniture design such as form, color, texture, balance, structure, ergonomics, functionality, material technology, and manufacturability. Students are expected to develop a personal direction/aesthetic in design and con-

struction of a mass producible wood furniture piece.

IND 3800-4 Industrial Safety and Production (2 + 4)

Prerequisites: IND 1010, IND 1130, IND 1200, IND 1220and IND 3410

A combination lecture/laboratory course covering safety practices and procedures and fundamentals of industrial production. Experience is gained in production planning, design, and

construction of jigs and fixtures used in mass production.

IND 3950-3 History of Industrial Product Design (3 + 0)

This course is created to provide students with a historical perspective of the various styling

and design movements within and adjunct to industrial product design.

IND 4030-4 Advanced Wood Processes (2+4)

IND 1010 or ART 1300 Prerequisite:

This course is a combination lecture and laboratory course surveying and applying the use of industrial cabinet and millwork procedures and materials. The laboratory experiences will focus on specific processes on specific equipment used in the industry. Emphasis will be

placed on new materials, hardware and equipment utilized in the cabinet industry.

IND 4090-3 Advanced Modelmaking Fabrication Techniques (1 + 4)

Prerequisite:

This course will provide students with the opportunity to fabricate finished scale product models. A variety of machine tools, processes, and materials will be used to complete the

fabrication process.

Computer Aided Drafting for Industry II (1+4) IND 4410-3

IND 1430 and IND 3660 Prerequisites:

This course is a continuation of the principles of Computer Aided Drafting (CAD). Advanced operations of AutoCAD will be used to produce drawings that are consistent with

industry standards.

IND 4450-3 Advanced Industrial Design I (1 + 4)

Prerequisite:

This course is a continuation of IND 3450, extending industrial designing to corporate image, product packaging and display. Special emphasis is given to human factors in product design.

IND 4460-3 Advanced Industrial Design II (1 + 4)

Prerequisite:

This course is the conclusion of the industrial design courses sequence in which the student

develops a professional design portfolio appropriate for job interviewing.

IND 4540-3 Advanced Design Concept Visualization (1 + 4)

IND 3450 Prerequisite:

In a studio environment, students will gain experience in advanced idea generation and visu-

alization for industrial design. Strong emphasis will be on skill development, as well as cre-

ative ways of employing new techniques to a variety of applications.

IND 4860-2 Research in Industrial Technology (2 + 0)

Prerequisites: senior standing; IND major

This course provides in-depth research, laboratory experimentation, and/or development of a student-selected and faculty-approved topic in one technical system. The areas of research are: communications, manufacturing and transportation/power. The course allows the student the opportunity to further develop problem-solving abilities. At the same time, the pro-

cess enhances the student's knowledge and skills in a technical concentration.

IND 4870-1-5 Special Studies in Industrial Design (0 + 2-10)

Prerequisite: permission of instructor

A study and investigation of a selected topic in the field of industrial design. Student may

repeat this course in alternate concentrations.

IND 4960-4 Professional Industrial Internship (1 + 18)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, senior standing,

and IND 4450

The industrial internship is the culmination of training for the bachelor's degree in the Industrial Design major. The internship is distinguished from work activities in that it is the student's responsibility to demonstrate that some project has been completed above and beyond

the usual requirements of a job. (Senior Experience)

ITALIAN

ITA 1010-5 Elementary Italian I (5 + 0)

This is a basic course in Italian, with emphasis primarily on pronunciation, speaking, and understanding, supplemented by grammar, reading, and writing. Attention will also focus on

understanding the culture and customs of Italy.

ITA 1020-5 Elementary Italian II (5 + 0)

Prerequisite: ITA 1010 or equivalent

This course is the continuation of ITA 1010.

ITA 2010-3 Intermediate Italian I (3 + 0)

Prerequisite: ITA 1020 or equivalent

This course emphasizes oral proficiency and continues the sequence of ITA 1010 and ITA 1020. It presents a sampling of social, political, cultural, and literacy topics central to the

understanding of Italy and the Italian people. Classes are taught mainly in Italian.

ITA 2020-3 Intermediate Italian II (3 + 0)

Prerequisite: ITA 2010 or equivalent

This course is a continuation of ITA 2010 and is designed to continue strengthening grammar skills and oral proficiency. It presents examples of social, political, cultural, and literacy

topics. This course is taught mainly in Italian.

INDUSTRIAL AND TECHNICAL STUDIES

ITS 3710-3 Developments in Industrial and Technical Processes (3 + 0)

Prerequisite: completion of trade or technical associate degree program or permission of instructor

An in-depth exploration of the elements common to all trade and technical industries: past

standards, current developments and future trends.

ITS 4810-3 Curriculum and Methods of Teaching Industrial Arts (2 + 3)

Prerequisite: IND 3800

A study of the history, philosophy and objectives of industrial arts. Development of a course of instruction including unit and lesson plans. Experience in development and execution of appropriate instructional methods. Three clock hours per week must be arranged concurrent with, and by permission of, the instructor of one of the industrial and technical studies

core courses.

JAPANESE

JPS 1010-5 Elementary Japanese I (5 + 0)

This basic course in Japanese emphasizes pronunciation, speaking, and understanding, sup-

plemented by grammar, reading, and writing.

JPS 1020-5 Elementary Japanese II (5 + 0)

Prerequisite: JPS 1010 or equivalent

As a continuation of JPS 1010, this course further emphasizes pronunciation, speaking, and

understanding based on more complex grammar, reading, and writing activities.

JPS 2010-3 Intermediate Japanese I (3 + 0)

Prerequisite: JPS 1020 or equivalent

This is the first semester of a two-semester intermediate Japanese language sequence specifically designed to strengthen grammatical skills and proficiency in speaking, understanding, reading, and writing. The course will also introduce students to a sampling of social, cultural

and literary topics central to the understanding of Japan and the Japanese people.

JPS 2020-3 Intermediate Japanese II (3 + 0)

Prerequisite: JPS 2010 or equivalent

This second course in the JPS 2010-2020 sequence is designed to continue strengthening grammatical skills and proficiency in speaking, understanding, reading, and writing. It will also present further examples of sociocultural issues central to Japan and the Japanese people.

JOURNALISM

JRN 1010-3 Introduction to Journalism and Mass Media (3 + 0)

Prerequisite: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment placement tests.

This course is a study of the historical development of newspapers and their role in U.S. society, and an exploration of the nature and impact of books, television, radio, magazines, films, public relations, advertising and technology and their relationship to journalism. (General

Studies—Level II, Social Sciences) (GT-SS3)

JRN 1100-3 Beginning Reporting (2 + 2)

Prerequisite: ENG 1010

This course is required for students in the news/editorial and photojournalism concentrations. This course provides concentration in a lecture and laboratory setting on the development of the basic skills of reporting and newswriting, with stress on accuracy, completeness,

clarity, speed, and fairness.

JRN 1110-3 Media Writing (2 + 2)

Prerequisite: ENG 1010

This course is required for students entering the public relations concentration or the public relations minor. It provides concentration in a lecture and laboratory setting on the development of the basic skills of reporting and writing for print, on-line and broadcast media. Stu-

dents are required to cover events out-of-class.

JRN 1200-3 Beginning Editing (2+2)

Prerequisites: ENG 1010 and JRN 1100 or JRN 1110

This course provides an introduction to and intensive practice in the techniques of copy edit-

ing and headline and cutline writing. Laboratory practice is provided.

JRN 1600-3 Survey of Photojournalism (3 + 0)

Students taking this class will get an overview of photojournalism, including its history and its impact on today's society. No photography experience is necessary. This course is not required for students in the journalism major with photojournalism concentration or the

photojournalism minor.

JRN 1700-3 Survey of Public Relations (3 + 0)

This course is for students who are not in the journalism major with public relations concentration or public relations minor. The course will give students an overview of the roles and functions of public relations, how to create audience-appropriate publications and documents, and how to create public relations campaigns to meet the needs of various publics.

JRN 2100-3 Intermediate Reporting (2 + 2)

Prerequisite: JRN 1100

This course is required for students in the news/editorial and photojournalism concentrations. This course allows students to refine the news gathering, interviewing and writing techniques that were learned in Beginning Reporting by introducing them to crime, courts, and government reporting. Laboratory time to perfect writing skills is provided. Students are

required to cover events out-of-class.

JRN 2210-3 Beginning Layout and Design (2 + 2)

Prerequisite: JRN 1200

This course will provide students with basic knowledge of layout and design for newspapers, magazines and other mass media publications including the Internet via such programs as

QuarkXpress, Photoshop, Illustrator and Dreamweaver.

JRN 2600-3 Introduction to Photojournalism (2 + 2)

Prerequisite: JRN 1100

Corequisite: ART 1271 or equivalent beginning photography course

This course provides beginning-level instruction in photojournalism and techniques used in

photography for the print media.

JRN 2700-3 Fundamentals of Public Relations (3 + 0)

Prerequisite: JRN 1110

This course is an introductory analysis and practical exploration of the roles and functions of public relations as it relates to an organization's internal and external publics. Development of practical skills include persuasive strategies, media relations and effective news releases.

JRN 3100-3 Publication Practicum (0 + 6)

Prerequisite: JRN 2100

The student, under supervision, will report and write publishable news and feature stories for

Denver-area daily and weekly newspapers and publications, including *The Metropolitan*.

JRN 3150-3 Contemporary Issues (3 + 0)

Prerequisite: JRN 2100

Students will perform in-depth investigation and writing about political, social, or economic issues, wherein each student works independently (but shares the experience with the entire

class) on a particular theme or community issue.

JRN 3200-3 Intermediate Editing (2 + 2)

Prerequisite: JRN 2210

This course provides advanced training in complex problems of copy editing, headline and caption writing, and news judgment plus work in page design and photo editing. Included is

laboratory time to practice these skills.

JRN 3400-3 Feature Article Writing for Newspapers (3 + 0)

Prerequisite: JRN 1110 or JRN 2100

Students will study the content and writing style of newspaper features, with numerous

assignments in developing feature ideas and producing finished stories.

JRN 3500-1 Topics in Journalism: Variable Topics (1 + 0)

Prerequisites: JRN 2100 and JRN 2200 or permission of instructor

This course will provide students with a brief look at a variety of topics in journalism, including specialized areas of reporting and writing techniques. Topics will vary each semester. This

course can be repeated for credit.

JRN 3600-3 Photojournalism I (0 + 6) (ART 3290)

Prerequisites: JRN 1100 and JRN 2600

This course provides an intermediate level of instruction in photojournalism and techniques used in photography for print media. Students must have a working knowledge of 35mm

cameras and darkroom procedures. Credit will be granted for only one prefix: JRN or ART.

JRN 3700-3 Public Relations Writing (3 + 0)

Prerequisite: JRN 2700

This course applies public relations theory, principles, techniques, and practices to teaching

students to write specific publications and documents, such as news releases, press kits, pub-

lic service announcements, newsletters and other communications materials.

JRN 3981-3 Cooperative Education: News/Editorial (0 + 9)

Prerequisite: JRN 2100

This course gives students an internship experience on a newspaper, magazine or other publication where they are able to use the skills learned in the classroom in a supervised, profes-

sional setting.

JRN 3982-3 Cooperative Education: Photojournalism (0 + 9)

Prerequisite: JRN 3600

This course gives students an internship experience working as a photojournalist on a newspaper, magazine or other publication where they are able to use the skills learned in the class-

room in a supervised, professional setting.

JRN 3983-3 Cooperative Education: Public Relations (0 + 9)

Prerequisite: JRN 3700

This course gives students an internship experience in public relations at an agency, corporation, non-profit organization or other entity where they are able to use the skills learned in

the classroom in a supervised, professional setting.

JRN 4100-3 Investigative Reporting (3 + 0)

Prerequisites: JRN 2100

This course is an in-depth look at reporting local governmental issues and at investigative

reporting with a special emphasis on the use of documents as a research tool.

JRN 4210-3 Advanced Layout and Design (2 + 2)

Prerequisites: J

This is an advanced course in layout and design of newspapers, magazines, newsletters, brochures, other professional publications, and Web pages including advanced problems in news judgment, photo editing and layout, use of graphics, and editing and headline writing. Stu-

dents will spend laboratory time designing pages.

JRN 4400-3 Feature Article Writing for Magazines (3 + 0)

Prerequisite: JRN 2100 or permission of instructor.

Students will study the content and writing style of magazine features, and the application of the techniques and marketing requirements for producing and selling feature articles to

magazines.

JRN 4450-3 Magazine Writing and Production (3 + 0)

Prerequisites: JR

This course is designed to teach students how to publish a magazine from start to finish, including planning issues and writing editorial content, such as cover copy, headlines, photo captions, departments, columns and features. Students will be responsible for designing and

laying out their magazine pages.

JRN 4500-3 Ethical and Legal Issues in Journalism (3 + 0)

Prerequisites: JRN 2100 for News/Editorial concentration or the Broadcast Journalism concentration in

Speech Communication, JRN 2700 for Public Relations concentration, JRN 2600 for Phottojournalism concentration, satisfaction of all Level I and Level II General Studies course

requirements, and senior standing.

This course is an intensive study of ethical, constitutional, and legal conflicts in the news

media. (Senior Experience)

JRN 4600-3 Photojournalism II (0 + 6) (ART 4290)

Prerequisite: JRN 36

This course provides advanced training in photojournalism and techniques used in photography for the print media. Students must have a working knowledge of 35mm cameras and

darkroom procedures. Credit will be granted for only one prefix: JRN or ART.

JRN 4700-3 Public Relations Strategic Planning (3 + 0)

Prerequisite: JRN 3700

This course applies public relations theory and techniques to identify, research, and solve public relations issues facing institutions and/or community non-profit agencies in one or

more comprehensive, semester-long projects.

JRN 4890-1-12 Social Documentary (0 + 2-24)

Prerequisite: JRN 3600 or JRN 2100

This course is offered to both writers and photographers who are expected to write and photograph independently or in teams to produce photo/essays for publication and portfolios. Emphasis will be placed upon stories that deal with cultural definitions that impact social change and the marriage between text and image.

LETTERS, ARTS AND SCIENCES

LAS 2810-3 Integrated Arts and Humanities I (2 + 2)

Prerequisite: ENG 1020

This interdisciplinary course, the first in a two-part sequence, is an integrated study of the visual arts, literature, music, drama, and philosophy of the ancient, medieval and Renaissance world. It explores humankind's cultural legacy and focuses thematically on the concerns of origin, self-knowledge, identity, world-view and society that many cultures, both Western and Eastern, share in common and also takes note of the unique contributions of different artists, writers, and thinkers to that process. Learning approaches will include lecture, discussion, projects, and attendance at a minimum of three cultural events.

LAS 2820-3 Integrated Arts and Humanities II (2+2)

Prerequisite: LAS 281

As part of a two-semester sequence, this interdisciplinary course continues the integrated study of the arts and humanities in the world of the seventeenth through twentieth centuries, from the baroque and the age of reason to Romanticism and the modern period. It considers the effects of scientific discovery, industrialization, social change, and technology on their development and the interaction of diverse cultures on an international and global basis, and also takes into account the unique contributions of different artists, writers, and thinkers. Learning approaches will include lecture, discussion, projects, and attendance at a minimum of three cultural events.

LAS 2850-3 Introduction to Cinema Studies (2 + 2)

Prerequisite: completion of Level I General Studies requirements, or permission of instructor

This course will introduce the study of motion pictures traditionally projected from film, that is, of cinema. Along with historical and theoretical concepts, students will learn a vocabulary of analysis that will enable them to articulate critical responses to cinema. During the lab hours students will view narrative films that illustrate various concepts being studied. Students will write analytical critiques of particular films. (General Studies—Level II, Arts and Letters) (GT-AH1)

LINGUISTICALLY DIVERSE EDUCATION

LDE 3510-3 Perspectives in Education for Culturally and Linguistically Diverse Learners (3 + 0)

Prerequisites:

Prerequisites:

Completion of Level I General Studies; ECE 2340, EDU 3100 or EDS 3110 (depending on early childhood, elementary, or secondary focvus); and SED 3600 or equivalent, or permission of instructor.

This is an introductory course in language acquisition and teaching theory with emphasis on the linguistically and culturally diverse learner. It acquaints the teacher candidate with historical perspectives, philosophical frameworks, legal implications, subject matter methodologies, assessment, classroom instruction, parent involvement, and current issues that affect linguistically diverse students and the school programs serving them.

LDE 3910-3 Assessment of English Language Learners (3 + 0)

EDU 3510 and SED 3600 or permission of instructor

This course is designed to familiarize teacher candidates with various assessment issues and strategies specific to English language learners. Through this course teacher candidates will gain a current knowledge base which will enable them to effectively assess English language learners and report assessment results to students, parents, other educators, the school district, and other appropriate entities. Teacher candidates will learn various formal and informal assessment techniques and will be able to use the results of assessments to create appropriate and effective instruction. Teacher candidates will also become familiar with assessment issues affecting special needs and gifted and talented English language learners. This course contributes to the essential knowledge and dispositions required of teachers who work with English language learners.

LDE 3950-3 Prerequisites:

Teaching Literacy and Content in Spanish (3 + 0)

Minimum score of 400 on BYU Spanish language proficiency exam or equivalent Spanish language proficiency exam; or completion of Spanish major or endorsement, or permission of instructor.

This course overviews the integrated methods, materials and curricula currently used in language arts and content instruction in Spanish. The course will emphasize decision making skills to foster the integration of diverse Spanish literacy skills in all academic areas. Content concepts and skills will be explored within the framework of age appropriate context and methods. Students will incorporate national standards, use technology and develop appropriate assessment strategies to evaluate instruction and pupil learning in Spanish. In addition, the course will extend bilingual teachers' knowledge of the historical perspectives, and philosophical as well as pedagogical frameworks of bilingual education in the United States.

LDE 4520-3 Prerequisites:

Field Experience in Culturally and Linguistically Diverse Education (1+6)

Successful completion of at least 30 credit hours in major; all teacher licensure courses at the 3000 level and below; all general studies courses; and completion of all requirements for the linguistically diverse minor; or permission of instructor.

This course considers language acquisition teaching techniques and their development and implementation in a linguistically diverse classroom. It requires ninety hours of field experience in a linguistically diverse classroom and seminars to reflect on practice. Students seeking the Linguistically Diverse Education: Bilingual Specialist Endorsement must complete the field experience in a bilingual setting.

LDE 4590-6 Prerequisites:

Culturally and Linguistically Diverse: ESL Students Teaching and Seminar (1 + 20)

Successful completion of all requirements of the major, minor, linguistically diverse endorsement, teacher licensure program, and general studies. Satisfaction of all student teaching application requirements by the required deadlines. Passage of the Linguistically Diverse PLACE test.

Corequisites:

In addition to taking LDE 4590, teacher candidates must complete eight weeks of student teaching (EDU 4190, EDS 4290, or ECE 4390) in an elementary, secondary, or early childhood classroom working with a cooperating teacher in their initial licensure area.

This course is a supervised, full-time eight week student teaching experience in an accredited public or private school's linguistically diverse program. The experience provides increasing responsibility for the teaching, supervision, and direction of an identified group of English language learners, K-12. Teacher candidates must attend weekly seminars conducted by college supervisors of student teaching. For this course, teacher candidates work with a linguistically diverse teacher and demonstrate proficiency in all phases of linguistically diverse classroom instruction. Teacher candidates are required to complete components of the teacher work sample and demonstrate proficiency in Performance Based Standards for Colorado Teachers as well as Colorado Linguistically Diverse Endorsement Standards. Proficiency required for recommendation for linguistically diverse endorsement includes ability to impact English language learners' academic success and to develop their English proficiency.

LDE 4690-6 Prerequisites:

Culturally and Linguistically Diverse: Bilingual Student Teaching and Seminar (1+20)

Successful completion of all requirements of the major, minor, linguistically diverse endorsement, teacher licensure program, and general studies. Satisfaction of all student teaching application requirements by the required deadlines. Passage of the Linguistically Diverse PLACE test.

Corequisites:

In addition to taking LDE 4690, teacher candidates must complete eight weeks of student teaching (EDU 4190, EDS 4290, or ECE 4390) in an elementary, secondary, or early childhood classroom working with a cooperating teacher in their initial licensure area. Students seeking the LDE: Bilingual Specialist Endorsement must complete the student teaching in a bilingual setting.

This course is a supervised, full-time, eight-week student teaching experience in an accredited public or private school's linguistically diverse program. The experience provides increasing responsibility for the teaching, supervision, and direction of an identified group of English language learners, K-12. Teacher candidates must attend weekly seminars conducted by the college supervisors of student teaching. For this course, teacher candidates work with a linguistically diverse teacher and demonstrate proficiency in all phases of linguistically diverse classroom instruction. Teacher candidates are required to complete components of the teacher work sample and demonstrate proficiency in Performance Based Standards for Colorado Teachers as well as Colorado Linguistically Diverse Endorsement Standards. Proficiency required for recommendation for linguistically diverse endorsement includes the ability to impact English language learners' academic success and to develop their English language proficiency. LDE: Bilingual Specialist candidates must plan and deliver instruction in a bilingual setting and emphasize ELL students' academic achievement in both their first (L1/Native) and second (L2/English) language.

MODERN LANGUAGES

MDL 1300-2 Languages for the Professionals: Variable Topics (2 + 0)

To afford the students a practical knowledge of a foreign language (Spanish, German, French, etc.) in order to facilitate communication and to provide understanding in a specific professional field. May be repeated for credit as the course title changes.

MDL 1610-3 Prerequisite:

American Sign Language I (3 + 0) (EDU 1610, SPE 1610)

minimum performance standard scores on the reading and writing preassessment placement

This course provides students with a basic understanding of American Sign Language including conversational skills and linguistic structures. Students are also introduced to Deaf cul-

ture. Credit will only be granted for one prefix: SPE, EDU, or MDL.

MDL 1620-3 American Sign Language II (3+0) (EDU 1620 / SPE 1620) (This course is not approved for

guaranteed transfer to other Colorado colleges and universities)

SPE/MDL/EDU 1610 or permission of instructor Prerequisite:

This coure is a continuation of SPE 1610 emphazising expressive language as well as increasing competence with receptive language skills. The course continues to build vocabulary and familiarity with the complex grammar (morphology and syntax) of this visual language. The Deaf experience and culture is integrated throughout. Credit will be granted for only one prefix: SPE, MDL or EDU. (General Studies–Level I, Communications)

MDL 1700-2 Foreign Languages for Travelers (2 + 0)

This course presents the basics necessary when traveling in a foreign country. It gives the traveler a minimal command of the basic phrases, salutations, weather, numbers, time, statements of need and desire. May be repeated for credit as the course title changes.

MDL 3050-3 Prerequisite:

Cultural Crossroads: France, Germany, Spain (3 + 0) (FRE 3050, GER 3050, SPA 3050)

ENG 1020

This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations. Students can get credit for only one prefix.

MDL 3800-3 Mexico: History, Life, and Culture (3 + 0) (CHS 3801)

Prerequisite: one year of Spanish or permission of instructor

This course is part of a study abroad program and provides an interdisciplinary understanding of Mexican civilization. It specifically deals with a social and historical approach to Mexican society and examines the traditions and institutions that shape the Mexican way of life.

Credit will be granted for only one prefix: MDL or CHS.

MDI.4960-3 Teaching Foreign Languages in the Secondary Schools (3 + 0)

Prerequisites: EDS 3210 plus nine hours of intermediate and advanced courses in one foreign language, or

permission of instructor

A course in methods and materials of instruction in modern foreign languages at the

secondary level.

MECHANICAL ENGINEERING TECHNOLOGY

MET 1000-3 Materials and Manufacturing Technology (3 + 0)

> This is an introductory course in manufacturing and includes a study of production processes and materials and manufacturing processes in the fabrication of industrial products. It relates these to current national, social, industrial, and international issues and problems.

MET 1010-3 Manufacturing Processes (2 + 2)

Basic fundamentals in the operation of machine tools are studied, including measuring tools, benchwork and layout, and tool grinding. The student performs various machine operations using the engine lathe, milling machine, vertical drills, and surface grinders.

MET 1200-3 Technical Drawing I (1 + 4) (CET 1200)

This is an introductory course in technical drawing. It covers the use of instruments, lettering, and geometric construction, and includes basic principles of descriptive geometry to solve problems involving the relative position of points, lines, and planes in space. Credit will be granted for only one prefix: MET or CET.

MET 1210-3

Technical Drawing II (1 + 4) (CET 1210)
CET 1200 or MET 1200 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is mechanical drawing using AutoCAD and manual drafting, and includes orthographics, axiometric and oblique projection, sectioning, dimensioning, and tolerancing. The student is also introduced to fluid power diagrams, piping weldments, and electrical and electronic diagrams. The final project is an assembly drawing of a mechanical component or subsystem. Credit will be granted for only one prefix: MET or CET.

MET 1310-3 Principles of Quality Assurance (3 + 0)

intermediate algebra or equivalent with a grade of "C" or better Prerequisite:

The course introduces the scope and function of quality assurance, including basic definitions, statistics, quality policy and objectives, manuals and procedures, concept of variation, inspection and sampling techniques, metrology process control, methods and the elements of reliability. Current TQM and ISO 9000 standards are reviewed.

MET 2150-3 Mechanics I-Statics (3 + 0) (CET 2150)

Pre/Corequisite: MTH 1410 with a grade of "C" or better, or permission of instructor

This course examines principles of statics, studies of vectors, their resolution and composition, forces and moments, force systems and their resultants. It also covers force systems in equilibrium, static friction, centroids, moments of inertia and radii of gyration of areas, shear and moment diagrams. Credit will be granted for only one prefix: MET or CET.

Materials of Engineering (2+2)MET 2200-3

MTH 1110 or MTH 1400 with grade of "C" or better CHE 1100 or CHE 1800 with grade of "C" or better Prerequisites: Pre/Corequisite:

This lecture/laboratory course deals with basic properties of metals and non-metals, including the properties and behavior that govern their selection and design. Materials covered include ferrous and non-ferrous metals, composites, plastics, ceramics, glass, wood, rubber and adhesives.

MET 2310-3 Quality Assurance: Statistical Methods (3 + 0)

MET 1310 and MTH 1210 with grades of "C" or better Prerequisites:

Statistical analysis is studied using fundamental concepts and guidelines including the theory of probability, specifications and tolerances, sampling, life testing and the cost of quality deci-

MET 2400-3 Welding Processes (2 + 2)

Prerequisites: MET 1010 and MET 2200 with grades of "C" or better

This course introduces industrial welding processes. These include fusion welding with the oxyacetylene and arc processes, brazing of ferrous and nonferrous metals, oxyacetylene cutting, inert gas welding and the study of advanced welding techniques, e.g., lasers.

MET 3000-4

Manufacturing Analysis (4 + 0) MET 1010, MET 1310, MTH 1110 or MTH 1400, all with a grade of "C" or better Prerequisites:

This course introduces the organizational and functional requirements for effective production. Tolerance charts and work piece control are used to plan the manufacturing sequence, select the preferred manufacturing equipment and the operational sequence.

MET 3050-3 Heat Power (2 + 2)

MTH 1410 and PHY 2010 or PHY 2311 with grades of "C" or better Prerequisites:

This energy conversion course combines lecture and laboratory for the manufacturing and industrial student. Emphasis is given to real processes, compression, expansion, heat transfer and to safety and efficiency of engines (stationary and mobile).

MET 3070-3 Machine Design (2 + 2)

Prerequisites: CET 3130 or MET 3130, and MET 2200 with grades of "C" or better

The art of designing machines to accomplish specific purposes is studied. The student is introduced to the fundamental principles required to design the separate machine elements. The economics of design are stressed along with strength and safety considerations. The lab work uses selected software, e.g., ALGOR and AutoCAD, to produce the preferred design.

N/C Computer Programming (2+2)MET 3100-3

MET 1010, MET 1210 and MTH 1120, all with a grade of "C" or better Prerequisites:

The theory is reviewed to control machines numerically. Algorithms are developed to program NC machines. N/C language and programming emphasizes APT, Compact II and suitable post-processors. The lab work includes operation of machines to demonstrate the pro-

gramming skills.

MET 3110-3 Thermodynamics (3+0) (CET 3150)

MTH 1410 and PHY 2010 or PHY 2311 with grades of "C" or better, or permission of instructor Prerequisites:

The fundamental laws of thermodynamics are studied. Basic concepts of energy, the thermodynamic system, dimensions and units, and the ideal-gas equation of state are treated. Closed and open systems are studied. Heat engines are introduced. Reversible and irreversible pro-

cesses are investigated. Credit will be granted for only one prefix: MET or CET.

MET 3120-2 Heat Transfer (2 + 0)

PHY 2020 or PHY 2331 and MTH 1510 (or equivalent) with grades of "C" or better Prerequisites:

The three basic mechanisms of heat transmission are studied. Conduction, convection (free and forced), plus radiant transmission are treated for both steady-state and transient condi-

tions. The transient study is aided by computer solutions.

MET 3130-3 Mechanics of Materials (3 + 0) (CET 3130)

CET 2150 or MET 2150 & MTH 2410 all with a grade of "C" or better, or permission of Prerequisites:

instructor

Corequisite: MET 3135 or CET 3140

This course introduces the theory of strength of materials; stresses and strains in members subjected to tension, compression, and shear; flexural and shearing stresses beams; deflection of beams; column analysis; principal stresses; and introduction to indeterminate structures.

Credit will be granted for only one prefix: MET or CET.

Mechanics of Materials-Laboratory (0 + 2) (CET 3140) MET 3135-1

CET 2150 or MET 2150 and COM 2610 all with grades of "C" or better, or permission of Prerequisites:

Corequisite: CET 3130 or MET 3130

This course is a laboratory course to accompany the lecture course CET 3130-3, Mechanics of Materials. This laboratory course is structured to give the student experience in the use of laboratory equipment for conducting torsion, shear and bending tests on various materials.

Credit will be granted for only one prefix: MET or CET.

MET 3140-1

Heat Transfer Laboratory (0 + 2)MET 3120 with grade of "C" or better (concurrent enrollment preferred) Prerequisite:

The laboratory course provides experimental results for various conduction and convection tests. The student selects and installs thermocouples, calibrates equipment, records transient and steady-state data, analyzes results, compares data to theoretical predictions

and reports findings.

MET 3160-3 Mechanics II-Dynamics (3 + 0) (CET 3160)

CET 2150 or MET 2150 and MTH 2410 with grades of "C" or better, or permission of instructor Prerequisite:

This course covers the principles of dynamics: kinematics, the study of the geometry of motion of a body without reference to the forces that cause the resulting motion; and kinetics, the study of the relation existing between the forces acting on the body, the mass of the body, and the motion of the body. Credit will be granted for only one prefix: MET or CET.

MET 3180-3 Fluid Mechanics I (3 + 0) (CET 3180)

CET 3160 or MET 3160 with a grade of "C" or better, or permission of instructor Prerequisite:

This course covers physical properties of fluids, hydrostatics, kinematics, energy considerations, momentum, and incompressible flow in pipes. Compressible fluid flow will also be

studied. Credit will be granted for only one prefix: MET or CET.

Fluid Mechanics II (2 + 2) MET 3190-3

MET 3110 and MET 3180 with grades of "C" or better Prerequisites:

This course covers the study of compressible internal flow with application to industrial, pneumatic systems. The study of isentropic, isothermal and flow of real gases is applied for nozzles, venturis, Pitot-tubes, and pipe systems. Flow loss calculations are made using the Darcy-Weisbach and Fanno Line techniques. Compressors, valves, ejectors, diffusers, and pneumatic components are studied to design and cost air service systems. The laboratory work supports lectures using various gas flow systems, including an instrumented fan test rig.

MET 3210-4 Introduction to Computer Aided Engineering (4 + 0)

Prerequisites: MTH 1120 or MTH 1400, either MET 1000 or CET 1100, all with a grade of "C" or better

This is an introductory course in computer aided engineering (CAE). The use of the computer as a tool for the solution of engineering technology problems is demonstrated. Included

are high-level languages, spreadsheet techniques and computer modeling.

MET 3250-3

Tool Design and Production Tooling (2 + 2) MET 2200 and MTH 1120 with grades of "C" or better Prerequisites:

The course deals with production tooling requirements and tooling cost estimates. Design of tooling for turret lathes, automatic screw machines, multiple spindle lathes and production

milling machines is treated.

MET 3300-3 Statistical Process Control (3 + 0)

MET 1310 and MET 3000 with grades of "C" or better Prerequisites:

This course focuses on statistical process control with emphasis on process capability, trou-

bleshooting, analysis of variance and hypothesis testing.

MET 3310-3 Thermodynamics II (2 + 2)

MET 3110 and MTH 2410 with grades of "C" or better Prerequisites:

This, the second course in thermodynamics, deals with the consequence of the Second Law. The Tds equations are studied, as are entropy and efficiencies of some heat power engines. Standard gas and vapor cycles are investigated. The laboratory work includes various calo-

rimetry, gravimetric and volumetric analyzes, nozzles and internal combustion engine tests.

Instrumentation Laboratory (2+2)MET 3320-3

Prerequisite: MET 3010 with a grade of "C" or better

The student is introduced to standard mechanical tests and measurement techniques, e.g., installing thermocouples, strain gages, positioning static and total probes. ASME and ASTM test codes are studied, as are OSHA standards. Various physical property and system perfor-

mance tests are set up, conducted and analyzed.

Robotics for Manufacturing (2+2)MET 3330-3

MET 3100 and EET 2000 with grades of "C" or better Prerequisites:

The course examines robotic components utilized in robots and automated systems. Manufacturing automation is analyzed as the robot is integrated with other flexible automation equipment. The focus is how to apply and design robotic integrated manufacturing systems. The laboratory work supplements the lectures using industrial robots for different applications.

MET 3410-3

Prerequisite:

Geometric Dimensioning and Tolerancing (2 + 2)MET 1210 and MET 1310 with grades of "C" or better
Dimensioning practices as defined by ASME National Standards (Y14.5M-1994) are studied. Tolerance of form, tolerances of position, datums, concentricity, symmetry and functional

gaging concepts are also treated to produce low-cost and high-quality products.

MET 3550-3 Rockets and Stars: A Space Trek (2 + 2)

junior or senior standing and satisfaction of all Level I General Studies course requirements Prerequisites:

In this course, the exciting vehicle of space is used to carry the student through basic theories and concepts of the natural sciences. Experts on outer-space and space exploration are guest lecturers. Ŝtudents visit Gates Planetarium, NOAA, Martin-Marietta, etc. (General Studies-

Level II, Natural Science)

MET 4000-3 Project Engineering (3 + 0)

Prerequisite: senior standing

The student is introduced to the project or team effort. The need for planning, control, and communication is stressed. Critical path methods are used to develop schedules. Figure-ofmerit methods are used to select preferred approaches/designs. Technical writing is stressed

with an introduction to competitive proposal writing.

MET 4010-3

Advanced Manufacturing Technology (3 + 0) MET 3000, MET 3330 and EET 2000, all with grades of "C" or better, satisfaction of all Level Prerequisites:

I and Level II General Studies course requirements and senior standing

The course includes micromonitor process control analysis, fiber optics technology, CMOS technology, ultraprecision-controlled devices with artificial intelligence systems, industrial

robots, fiber optics and imagineering future applications. (Senior Experience)

MET 4040-3 Plant Layout (2+2)

MET 1210 and MET 3000 with grades of "C" or better Prerequisite:

Basic principles of plant layout to meet production needs are studied along with the application of materials handling devices to the process. Selection and arrangement of production machinery, product and process layout schemes, techniques of making layouts, and the balance and flexibility of operations are traded to select the preferred layout. Management's role

MET 4070-3 Computer Aided Design (2 + 2)

MET 3070, either MET 3210 or MTH 1510, all with a grade of "C" or better, satisfaction of all Prerequisites:

Level I and Level II General Studies course requirements and senior standing

The student studies combined stresses, gearing, brakes, curved beams, etc., and undertakes the design of a complete machine. This is the second in the two-course machine design series.

The analysis includes computer solutions. (Senior Experience)

MET 4080-3 Computer Aided Manufacturing (2 + 2)

MET 3000, MET 3100, MET 3210 or MTH 1510, all with grades of "C" or better Prerequisites:

Computer applications in configuration control, purchasing, vendor ratings, production control, inventory control and final product acceptance documentation are treated. The Smart-

CAM software is used.

MET 4240-3 Cost Estimating for Manufacturing (3 + 0)

MET 3000 and MET 3210 or MTH 1510 with grades of "C" or better Prerequisites:

Manufacturing costs, types of estimates, computer applications to cost estimating, cost estimating controls and cost-estimating procedures are studied. The ASME approach to realistic cost estimating is emphasized throughout the course.

MET 4280-3 Advanced Energy Technology (2 + 2)

Prerequisites: MET 3120, PHY 2010 or PHY 2311, and PHY 2020 or PHY 2331, all with grades of "C" or

Global energy flows, sources and uses of energy are studied. Biological energy and ecosystems are introduced from the viewpoint of the engineering technologist. Energy-related environ-

ment problems including air and thermal pollution plus radioactivity are treated.

Air Conditioning/Refrigeration (3 + 0)MET 4480-3

Prerequisite:

MET 3120 with a grade of "C" or better Refrigeration cycles are studied. Operation and rating of system components are evaluated with heat flow in condensers, evaporators and cooling towers treated. The control of tem-

perature and humidity, along with air-handling equipment and ducting, are studied.

MANAGEMENT

MGT 1000-3 Introduction to Business (3 + 0)

This course presents an introduction to business concepts that are further developed in the business core and in other courses pursued by business and economics majors. Also discussed are contemporary issues facing business. This course allows business students to develop a context for their studies and gives non-business students insights into the world of business.

MGT 2210-3 Legal Environment of Business I (3 + 0)

Prerequisite: ENG 1020

This course is designed to present the legal system as it applies to business. The course includes a discussion of fundamental concepts related to the nature and sources of law and to the resolution of disputes. The course requires analysis of statutes, cases, regulations of related governmental agencies that address employment, securities, trade and workplace decisions. The law of agency, contracts, organizations and torts is analyzed. Ethical and inter-

national aspects of law are treated where appropriate.

MGT 2500-3 Small Business Management (3 + 0)

for non-business majors and business minors only Prerequisite:

This course covers the principles of small business management and is designed for nonbusiness majors only. Areas addressed include the positives and negatives of starting a small business, and particularly profiling the target customer, the competition, promotion, loca-

tion, accounting, legal concerns, franchising and planning.

MGT 3000-3 Organizational Management (3 + 0)

Prerequisites: at least junior standing or permission of instructor. Completion of General Studies Level I

composition and communications requirements

This course examines, analyzes and assesses managerial functions and processes as related to business and other organizations. It is designed to prepare students to meet the challenges of a highly dynamic and ever changing business environment by formulating individual competencies and skills, translating theory into practice, creating critical thinkers, and reflecting on the integration of new concepts and environmental changes into managerial practices.

MGT 3020-3 Fundamentals of Entrepreneurship (3 + 0)

Prerequisite: MGT 30

Fundamentals of Entrepreneurship identifies the management skills necessary for starting, buying, or working for a business with high growth potential. Areas addressed include the positives and negatives of starting a business, researching and developing a business concept; investigating market factors; and planning financial strategies. Students will evaluate business ideas and develop a written feasibility plan.

MGT 3210-3 Commercial and Corporate Law (3 + 0)

Prerequisite: MGT

MGT 2210

This course includes a study of the fundamental legal concepts of property and a study of the Uniform Commercial Code as it applies to secured transactions, commercial paper and sales. Also examined are business organizations with major emphasis on partnerships and corporations, as well as bankruptcy and estates.

MGT 3220-3 Legal Environment of Business II (3 + 0)

Prerequisite:

MGT 2210

This course provides the student with an understanding of the contemporary legal environment in which business must function. It focuses on the power of government to regulate business and the exercise of that power. Covered are ethics and laws relating to corporations and partnerships; securities, antitrust, employment discrimination, affirmative action, bankruptcy and administrative agencies.

MGT 3530-3 Human Resources Management (3 + 0)

Prerequisite:

MGT 3000

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.

MGT 3550-3 Manufacturing and Service Management (3 + 0)

Prerequisite:

MGT 3000

This course is an introduction to the activities required to manufacture a product or create a service. Topics include work-force issues, bottlenecks, scheduling, quality assurance, materials control, and dealing with capacity and technological change. Manufacturing and service management in the international arena is contrasted with such management in contemporary American organizations.

MGT 3820-3 International Business (3 + 0)

Prerequisite:

at least junior standing

This course is designed to enhance understanding of the international environment faced by businesses. Trade barriers, cultural differences, entry strategies into foreign markets, foreign currency, political environments, and economic environments are among the many topics surveyed to assist students in becoming aware of international issues and events influencing management in today's global environment.

MGT 3890-3 Readings in Management (3 + 0)

Prerequisite:

MGT 3000 and at least junior standing or permission of instructor

In the course, a student will read in a selected area of Management. Critiques of the works read will be submitted to the professor directing the reading.

MGT 4000-3 Management Decision Analysis (3 + 0)

Prerequisite:

MCT 3000

This course focuses on understanding and improving managerial decision making in formally structured organizations. Emphasis is placed on qualitative aspects of decision making in the context of individual, group, and organizational dynamics.

MGT 4020-3 Entrepreneurial Creativity (3+0)

Prerequisite: MGT 3000

The course will focus on techniques for improving entrepreneurial creativity. Topics include techniques to enhance intuitive creative thinking within the business environment. The emphasis is on the development and implementation of innovative approaches to management and eliciting creative traits from the student to assist in the improvement of business

venture planning and development.

MGT 4050-3 Purchasing and Contract Management (3 + 0)

Prerequisite: MGT 3000

This course covers contemporary issues, concepts and techniques related to the location,

analysis and monitoring of sources of goods, materials and services.

MGT 4420-3 Entrepreneurial Business Planning (3 + 0)

MGT 3020 Prerequisite:

This course requires the student to prepare a definitive, comprehensive business plan involving all aspects of a proposed new venture. To attract seed money and growth capital, the student plan must address probable start-up issues involving market analysis, competition, workforce and capacity planning. Emphasis is on financial viability and business plan pack-

aging to secure financial seed money.

MGT 4530-3 Organizational Behavior (3 + 0)

Prerequisite: MĞT 3000

This course examines the behavior of individuals and small groups in organizational settings. The emphasis is on how organizations influence behavior in their quest for operating effi-

ciency and effectiveness.

MGT 4550-3 Project Management (3 + 0)

Prerequisite: MGT 3000

This course investigates the concepts and applicability of matrix organizations and project management. The unique nature of the project management structure is also examined, including its emphasis on integrative decision making throughout a product's life cycle.

MGT 4610-3 Labor/Employee Relations (3 + 0)

MGT 2210 and MGT 3000 Prerequisite:

This course provides the student with an understanding of the development of labor law and its application to the management of employer/employee relations. Cases and illustrations are used to demonstrate collective bargaining and methods of securing industrial peace.

Appraisal and Compensation (3 + 0) MGT 4620-3

Prerequisite:

MGT 3530

This course investigates methods of (1) identifying, measuring and evaluating performance; (2) using performance data as a basis for human resource management decisions; and, (3)

designing compensation systems to attract, retain and motivate employees.

MGT 4640-3 Employee Training Development (3 + 0)

Prerequisite: MGT 3530

This course focuses on the design, implementation and uses of training and development as a necessary part of increasing the value of employee and manager skills. Rapid organiza-

tional change precipitated by global competition, multicultural and multinational workers, and technology implementation require organizations to develop the human potential and

careers of their employees at all levels.

MGT 4650-3 Managing Productivity (3 + 0)

Prerequisite: MGT 3000

This course investigates methods and approaches that are used to improve productivity in organizations. The course focuses on the descriptions and evaluation of these various productivity improvement techniques, including the study of critical situational factors that are

important in a manager's attempt to become efficient in resource usage.

MGT 4830-3 Workforce Diversity (3 + 0) (WMS 4830)

Prerequisites: satisfaction of Level I and Level II General Studies course requirements and senior standing

This course provides an integrated perspective on the management practices and systems that influence the development and contributions of individuals within a culturally diverse work force. The focus is on those practices that enhance an organization's effectiveness in the increasingly competitive domestic and global marketplace. Credit will be granted for only one prefix: MGT or WMS. (Multicultural; Senior Experience)

MGT 4950-3 Strategic Management (3 + 0)

Prerequisites: completion of all other business core courses and senior standing

This course presents concepts used by managers to develop companies that can prosper in a competitive, global environment. Students are provided the opportunity to apply the concepts and theories of strategic management along with knowledge gained from business courses, general studies, and work experience to the operating and strategic challenges faced by domestic and global organizations. (Senior Experience)

MILITARY SCIENCE (ARMY ROTC)

MILR 1011-2 Adventures in Leadership I*

This course introduces fundamentals of leadership and the United States Army. It examines its organization, customs, and history as well as its current relevance and purpose. Students also investigate basic leadership and management skills necessary to be successful in both military and civilian settings. It includes fundamentals of Army leadership doctrine, team-building concepts, time and stress management, an introduction to cartography and land navigation, marksmanship, briefing techniques, and some basic military tactics. Lab fee: \$87.50.

MILR 1021-2 Adventures in Leadership II*

This course continues the investigation of leadership in small organizations. It covers selected topics such as basic troop leading procedures, military first aid and casualty evacuation concepts, creating ethical work climates, an introduction to Army organizations and installations, and a further examination of basic military tactics. It introduces students to effective military writing styles. Lab fee: \$87.50.

MILR 2031-3 Methods of Leadership and Management I*

This course comprehensively reviews advanced leadership and management concepts including motivation, attitudes, communication skills, problem solving, human needs and behavior, and leadership self development. Students continue to refine effective written and oral communications skills and to explore topics such as the basic branches of the Army, and officer and NCO duties. Students conduct classroom and practical exercises in small unit light infantry tactics and are prepared to perform as midlevel leaders in the cadet organization. Lab fee: \$87.50.

MILR 2041-3 Methods of Leadership and Management II*

This course focuses on leadership and management functions in military and corporate environments. It studies various components of Army leadership doctrine to include the four elements of leadership, leadership principles, risk management and planning theory, the beknow-do framework, and the Army leadership evaluation program. This course continues to refine communication skills. Lab fee: \$87.50.

MILR 3052-3 Military Operations and Training I

Prerequisites: Consent of the Professor of Military Science.

This course further explores the theory of managing and leading small military units with an emphasis on practical applications at the squad and platoon levels. Students examine various leadership styles and techniques as they relate to advanced small unit tactics. Familiarizes students with a variety of topics such as cartography, land navigation, field craft, and weapons systems. It involves multiple, evaluated leadership opportunities in field settings and hands-on experience with actual military equipment. Students are given maximum leadership opportunities in weekly labs. Lab fee: \$87.50.

MILR 3062-3 Military Operations and Training II

Prerequisites: Consent of the Professor of Military Science.

This course studies theoretical and practical applications of small unit leadership principles. It focuses on managing personnel and resources, the military decision making process, the operations order, and oral communications. It exposes the student to tactical unit leadership in a variety of environments with a focus on preparation for the summer advance camp experience. Lab fee: \$87.50.

MILR 4072-3 Officer Leadership and Development I*

Consent of the Professor of Military Science. Prerequisites:

This course examines management and leadership concepts and techniques associated with planning and executing military training and operations at company and higher echelons. It includes analyses of professional ethics and values, effective training principles and procedures, subordinate counseling, and effective staff officer briefing techniques. It also investigates other subjects such as counter terrorism, modern peacekeeping missions, and the impact of the information revolution on the art of land warfare. It is conducted both in and out of classroom setting and with multiple practical leadership opportunities to organize cadet training and activities. Lab fee: \$87.50.

MILR 4082-3 Officer Leadership and Development II*

Prerequisites: Consent of the Professor of Military Science.

This course continues MILR 4072 study of management and leadership concepts and techniques, providing practical leadership experiences in the classroom and during multiple cadet-run activities. It also examines varied topics such as theory and practice of the military justice system, law of war, military-media relations, support mechanisms for soldiers and their families, operational security considerations, and historical case studies in military leadership in the context of 21st century land warfare. Lab fee: \$87.50.

*These courses are taught at the Colorado School of Mines. Round trip transportation is provided. Please contact the Army ROTC office at the Department of Military Science at the University of Colorado, 303-492-

MARKETING

MKT 2040-3 Business Communication (3 + 0)Prerequisites: ENG 1010, ENG 1020, SPE 1010

> Multiple forms of communication within a business environment are studied. Emphasis is placed on writing, listening, speaking, nonverbal and interpersonal communication with internal and external business audiences. Students apply the principles learned to written

exercises and oral presentations.

MKT 3000-3 Principles of Marketing (3 + 0)

Prerequisite: at least junior standing

This course helps students understand marketing, the process through which organizations analyze, plan, implement and control programs to develop and maintain beneficial exchanges with target buyers. Effective marketing is critical for the long-term success of any business organization because this function ensures that the firm attracts, retains, and grows custom-

ers by creating, delivering, and communicating superior customer value.

MKT 3010-3 Marketing Research (3 + 0)

MKT 2040, MKT 3000, CIS 2300 (or equivalent college statistics course), and at least junior Prerequisites:

standing

This course will provide the marketing student with a systematic and objective approach to the search for and analysis of information relevant to the identification and solution of

marketing problems.

MKT 3100-3 Retail Marketing (3 + 0)

Prerequisites: MKT 3000 and at least junior standing

This course will familiarize the student with fundamental retailing concepts and practices. Emphasis will be given to a strategic planning approach for developing and managing the

retail marketing mix.

MKT 3110-3 Advertising Management (3 + 0)

Prerequisites: MKT 3000 and at least junior standing

The principles of advertising are covered in this course from a business planning framework. The course surveys the advertising field from the marketing-advertising planning framework. It also discusses the targeting of advertising, types of media, media planning and buying, creative planning, and the basic creative formats for each medium. An evaluation of advertising

and the production of efficient ads are discussed.

MKT 3120-3 Promotional Strategy (3 + 0)

Prerequisites:

MKT 3110 and at least junior standing Following Advertising Management, MKT 3110, this course provides an in-depth understanding and analysis of promotional strategies and tactics necessary in the management of all marketing communications. Students design and execute actual advertising, sales promo-

tion, and publicity plans for a real business.

MKT 3140-3 Direct Marketing Management (3 + 0)

MKT 3000 and at least junior standing Prerequisites:

This course will examine the concepts, strategies, and applications involved in direct marketing. Topics include the scope of direct marketing, launching direct marketing programs, planning and market segmentation, developing and managing products and services, promotion and multimedia plans, customer service and response, and performance measures.

MKT 3160-3 Sales Management (3 + 0)

MKT 3000 and at least junior standing Prerequisites:

This course will provide students with a comprehensive study of problems involved in managing a sales force. Areas covered include organizations, motivation, and performance evalua-

tion. Case analysis is emphasized.

MKT 3250-3 Personal Selling (3 + 0)

Prerequisites: MKT 3000 and at least junior standing

This course examines the environment of personal selling and the process of personal selling. Areas covered include communicating with diverse customers, ethical and legal considerations in personal selling, and the elements of the personal selling process. This course has

a case orientation.

MKT 3300-3 Marketing of Services (3 + 0)

MKT 3000 and at least junior standing Prerequisites:

This course will introduce students to the problems and issues that are unique to marketing a service organization as well as marketing services. Topics include service strategy, listening to customers, complaint management, service guarantees, customer satisfaction, measuring return on quality, managing moment of truth, relationship marketing, and employee empowerment.

Consumer Behavior (3 + 0) MKT 3310-3

MKT 3000 and at least junior standing Prerequisites:

This course analyzes the underlying theories and complex variables influencing consumers and their purchase decision-making processes. The marketing strategy implications of consumer behavior concepts are studied.

MKT 3410-3 Marketing Logistics (3 + 0)

Prerequisites:

MKT 3000 and at least junior standing
This course focuses on the task of logistics as a marketing function. It provides the student with a review and understanding of the history, types of transportation, storage arrangements and optimization of the logistics operation. The evolution of marketing channels and their relationship to logistics and the marketing process is also covered in this course.

MKT 3500-3 Sports Marketing (3 + 0)

at least junior standing Prerequisite:

This course is a study of how the principles of marketing are applied in the sports industry. The course examines the marketing of sports, teams, athletes, etc., as well as the use of sports

to market products (e.g., sponsorship and promotional licensing).

MKT 3610-3 Business-to-Business Marketing (3 + 0)

MKT 3000 and at least junior standing Prerequisites:

In this course, students will investigate the activities involved in marketing goods and services to businesses, institutions, resellers, and government, with primary emphasis on business-to-

business marketing.

MKT 3710-3 International Marketing (3 + 0)

Prerequisites: MKT 2040, MKT 3000 and at least junior standing

The primary objective of this course is to introduce students to the complexities involved in the international marketing process. This course will sensitize students to the economic, political, and cultural differences among nations as they affect marketing; introduce students to the framework of organizations, laws, and business practices as they affect marketing; and develop a student's ability to identify and evaluate marketing opportunities in the

international marketplace.

MKT 3810-3 Electronic Marketing (3 + 0)

MKT 3000, CIS 2010 or equivalent, and at least junior standing Prerequisites:

This course is designed to introduce students to the cutting edge technologies that are necessary to perform effectively as marketing professionals. The primary focus of this course is marketing uses of the worldwide network of computers known as the Internet including Web site design and maintenance, marketing research, e-mail, and advertising. The course will also provide limited coverage of other electronic technologies including fax-on-demand, CD-

ROM, and database marketing.

MKT 4110 Reputation and Brand Management (3+0)

Prerequisites:

This course examines the difference between reputation and brand management, demonstrates how marketing activities impact both the reputation of an organization and the power of its brand, and examines the strategic importance of effectively managing both.

MKT 4520-3 Seminar in Marketing Management (3 + 0)

Prerequisites: 12 completed credit hours of marketing courses plus senior standing

This is the culminating final course required of all marketing minor students (and a marketing elective for marketing majors). In this final course, the student will develop and apply marketing strategies and policies in solution to problems related to the consumer and the

business environment.

MKT 4560-3

Marketing Strategy (3 + 0) MKT 3010, MKT 3310, and senior standing Prerequisites:

This culminating course for all marketing majors emphasizes the case approach to the study of marketing problems. Problem areas to be studied include market and profitability analysis,

marketing planning, strategy, and control.

MATHEMATICAL SCIENCES

Computer Science courses are listed under the prefixes CS and CSS and are offered through the Department of Mathematical and Computer Sciences.

MTH 1080-3 Mathematical Modes of Thought (3 + 0)

Prerequisites: one and one-half years of high school algebra or the equivalent and an appropriate score on

the mathematics preassessment placement test

This course is an introduction to the methods of mathematics for nontechnical students. It includes problem-solving strategies, statistical reasoning, and the nature of mathematics in

the curriculum. (General Studies—Level I, Mathematics) (GT—MA1)

MTH 1110-4 College Algebra (4+0)

an intermediate algebra course or one and one-half years of secondary school algebra or Prerequisite:

equivalent and appropriate score on the mathematics preassessment placement test

The topics covered include equations and inequalities, functions and graphs, exponents and logarithms, conic sections, linear systems, elementary probability, and the binomial theorem. Basic algebraic skills are essential as a prerequisite to this course. All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required. (General

Studies—Level I, Mathematics) (GT–MA1)

MTH 1120-3: College Trigonometry (3 + 0)

MTH 1110 with a grade of "C" or better Prerequisite:

The topics covered include trigonometric functions, equations and identities, solution of triangles, and complex numbers. A specific graphing calculator will be required. (GT—MA1)

MTH 1210-4 Introduction to Statistics (4 + 0)

Prerequisites: two years of high school algebra or equivalent and an appropriate score on the mathematics

preassessment test

This course is an introduction to the principles and techniques of descriptive statistics, probability, regression analysis, and statistical inference (estimation and tests of hypotheses). Students will work with data on problems related to their own interest or field of study. Credit will not be given for both MTH 1210 and MTH 1230. (General Studies-Level I,

Mathematics) (GT—MA1)

MTH 1230-2 Introduction to Probability and Descriptive Statistics (2+0)

This course introduces the principles and techniques of probability, descriptive statistics and probability distributions. Students will learn collecting, analyzing, and drawing conclusions from data in their chosen field and using statistical software. This course will not count

toward graduation if MTH 1210 is also taken.

MTH 1310-4 Finite Mathematics for the Management and Social Sciences (4 + 0)

one and one-half years of high school algebra or equivalent and an appropriate score on the Prerequisites:

mathematics preassessment placement test

This course stresses applications in business and the social sciences. The topics covered include evaluation and graphing of functions, the geometry of straight lines, operations on matrices, solving systems of equations, and an introduction to set theory and probability theory. All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required. (General Studies—Level I, Mathematics) (GT—MA1)

MTH 1320-3

Prerequisite:

Calculus for the Management and Social Sciences (3 + 0) MTH 1310 with a grade of "C" or better. MTH 1110 or MTH 1400 with a grade of "C" or better will be accepted, if necessary.) Graphing calculator experience is expected.

This course is an introduction to calculus emphasizing applications in business and social sciences. Topics include differentiation, partial differentiation, indefinite and definite integration. All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required.

MTH 1400-4 Precalculus Mathematics (4 + 0)

Prerequisite:

Completion of MTH 1110 and MTH 1120 with grades of "C" or better or other evidence showing knowledge of this material or an appropriate score on a department-approved placement test

This is a course covering the essentials of the algebraic and graphical properties of the polynomial, rational, exponential, logarithmic, and trigonometric functions. It is designed to prepare students for MTH 1410, Calculus I. All sections will integrate the use of a graphing calculator into the course. A specific calculator will be required. (GT—MA1)

MTH 1410-4 Calculus I (4+0)

Prerequisites:

MTH 1110 and MTH 1120 with grades of "C" or better and appropriate score on the department's Calculus Readiness Exam, or MTH 1400 with a grade of "C" or better This is a first course in calculus for science and engineering. The topics covered include deriv-

atives of polynomials, trigonometric, exponential and logarithmic functions, applications of the derivative, the definite integral, and the fundamental theorem of calculus. All sections of the course will make integrated use of the software package Mathematica and/or a graphing calculator. (GT-MA1)

Computer Programming: FORTRAN (4+0) MTH 1510-4

Prerequisite:

MTH 1120 OR MTH 1400, either with a grade of "C" or better.

This is a first course in computer programming for students in mathematics, science, or engineering, using the FORTRAN language. It includes an introduction to computer applications, program design, testing and debugging.

MTH 1610-3 Integrated Mathematics I (3 + 0)

Prerequisites:

one and one-half years of high school algebra or equivalent, and an appropriate score on the

mathematics preassessment test or permission of instructor. This course integrates mathematical topics including those from algebra, geometry, prob-

ability and statistics. Students take a concept-oriented approach to: exploring critical problems from an advanced standpoint; deriving and justifying multiple solutions; analyzing and communicating the reasoning behind these solutions. (General Studies—Level I, Mathematics)(GT-MA1)

MTH 2140-2 Computational Matrix Algebra (2 + 0)

Prerequisite:

MTH 1120 or MTH 1400 or equivalent with a grade of "C" or better

This course is an introduction to computational matrix algebra. The computations will be done by hand and by using the software package MATLAB. The course will include the following topics: matrix operations, determinants, solutions of linear systems of equations, and eigenvalues and eigenvectors. Only one of the three courses MTH 2140, MTH 3130, or MTH 3140 can be counted in the mathematics major or minor.

MTH 2410-4 Calculus II (4+0)

Prerequisite:

MTH 1410 with a grade of "C" or better, or permission of instructor

This is a second course in calculus. The topics covered include techniques of integration, applications of the integral, introductory differential equations, and infinite series, including Taylor's series. All sections of the course will make integrated use of the software package Mathematica and/or a graphing calculator.

Calculus III (4+0) MTH 2420-4

MTH 2410 with a grade of "C" or better, or permission of instructor Prerequisite:

This course in the calculus of functions of more than one variable includes the following topics: partial derivatives, definite integrals over plane and solid regions, vectors and their applications, and Green's Theorem and its generalizations. All sections of the course will make

integrated use of the software package *Mathematica*.

MTH 2530-2 Introduction to Mathematica (2 + 0)

MTH 2410 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is an introduction to the mathematical symbolic manipulation software package Mathematica and its use in solving problem from calculus and matrix algebra. This course also presents familiar concepts from calculus from a new perspective in order to strengthen

the students' mathematical understanding.

MTH 2620-3 Integrated Mathematics II Credit Hours: (3 + 0)

MTH 1610 with a grade of "C" or better, or permission of instructor Prerequisite:

> This course continues the concept-oriented, integrated study of mathematical topics including those from algebra, geometry, statistics, and combinatorics. Students further deepen their mathematical understanding and their ability to justify solutions, and analyze and communi-

cate their reasoning about complex problems

MTH 3100-3 Introduction to Mathematical Proofs (3 + 0)

MTH 2410 with a grade of "C" or better, and permission of the Department of Mathematical Prerequisites:

and Computer Sciences

This course is designed to introduce the student to mathematical proofs and abstract mathematics with topics in the predicate calculus, induction, well-ordering principle, sets, rela-

tions, and functions.

MTH 3110-3 Abstract Algebra I (3 + 0)

MTH 3100 with a grade of "C" or better; or permission of instructor Prerequisite:

This course is a survey of the principle structures of modern abstract algebra, including introductions to the theories of groups, rings, integral domains, and fields. Each structure is introduced by examples, then basic properties are derived, and the appropriate applications

are introduced.

MTH 3130-4 Advanced Matrix Methods for the Physical Sciences (4 + 0)

MTH 2410 with a grade of "C" or better Prerequisite:

This is a course in the principles and application of matrix methods, primarily to problems in the surveying and engineering fields. Topics include solving systems of linear equations, determinants, matrix algebra, vector spaces, eigenvalues and eigenvectors, orthogonality, nonlinear least squares and geodesy, and finite elements. A software package will be used in this course. Only one of the three courses MTH 2140, MTH 3130, or MTH 3140 can be counted

in the mathematics major or minor.

MTH 3140-4 Linear Algebra (4+0)

MTH 3100 with a grade of "C" or better or permission of instructor Prerequisite:

This course is an introduction to the theory and application of vector spaces, linear transformations, matrix representations, eigenvalues, and eigenvectors. A software package will be used in this course. Only one of the three courses MTH 2140, MTH 3130, or MTH 3140 can

be counted in the mathematics major or minor.

MTH 3210-4 Probability and Statistics (4 + 0)

Prerequisite:

MTH 2410 with a grade of "C" or better, or permission of instructor This is a course in the application and theory of the principles of probability and statistics in the sciences and engineering. It includes random variables, probability distributions, sam-

pling, estimation, tests of hypotheses, and regression analysis.

MTH 3220-4 Design of Experiments (4+0)

MTH 3210 and either MTH 2140 or MTH 3140, all with grades of "C" or better, or permission Prerequisites:

This is a course in the application and theory of statistical methods in the sciences and engineering. It includes analysis of variance, factorial experiments, and regression analysis.

MTH 3240-4 Environmental Statistics (4+0)

Prerequisites: MTH 1110 and MTH 1210 with grades of "C" or better, or permission of instructor

This is a course in inferential statistics, sampling techniques, and quality control as they relate to environmental issues. Students will work with data and problems related to the environmental science field of study. This course does not count towards a major or minor

in mathematics.

MTH 3250-4 Optimization Techniques I (4 + 0)

MTH 2140 or MTH 3140 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is an introduction to the mathematical programming techniques of operations research including linear programming and topics selected from integer programming, net-

work analysis, dynamic programming, and game theory.

MTH 3260-4 Optimization Techniques II (4 + 0)

MTH 1410 and MTH 2140 or permission of instructor Prerequisites:

This course is a study of mathematical planning techniques and probabilistic techniques of operations research. The topics covered will be selected from: simulation theory, decision theory, inventory theory, Markov chains, queuing theory, nonlinear programming, geometric

programming, and economic analysis.

Chaos and Nonlinear Dynamics (4+0) MTH 3400-4

MTH 1410 and MTH 2410 with a grade of "C" or better, or permission of instructor; and Prerequisites:

satisfaction of all Level I General Studies course requirements

This course is an introduction to dynamical systems from the extension of Newtonian physics to the development of chaos theory and nonlinear dynamics. It gives insight into the evolution of nonlinear dynamics from historical mathematical and applications viewpoints. It develops and applies chaos theory to physical systems. Algorithms for generating intricate fractal images and the mathematics behind the images are also developed. (General Studies–Level II, Arts

and Letters)

MTH 3420-4

Prerequisite:

Differential Equations (4 + 0) MTH 2420 with a grade of "C" or better, or permission of instructor This course includes a study of first, second, and higher order differential equations and systems giving solutions in closed form, by numerical approximations, and through Laplace Transforms. These techniques are applied to problems in the physical sciences and engineering. All sections will integrate the use of the software package Mathematica into the course.

MTH 3440-4

Partial Differential Equations (4+0) MTH 3420 with a grade of "C" or better, or permission of instructor Prerequisite:

This is a course in partial differential equations and their solutions. It includes separation of variables techniques, Fourier series, and applications to the heat equation, the wave equation, and the potential equation. All sections will integrate the use of the software package

Mathematica into the course.

MTH 3470-3 Introduction to Discrete Mathematics and Modeling (3 + 0)

MTH 2410 with a grade of "C" or better, or permission of instructor Prerequisite:

This is a problem-solving course. Topics will include enumeration, graph theory, difference

equations, modeling, simulation, fractal geometry, and dynamical systems.

MTH 3650-3

Foundations of Geometry (3 + 0) MTH 3100 with a grade of "C" or better, or permission of instructor Prerequisite:

This course will re-examine Euclidean geometry via Hilbert's axioms. This will allow a coherent approach to projective, Euclidean, non-Euclidean, and other related geometries. It is designed

for prospective secondary teachers and others interested in modern geometric theories.

MTH 4110-3 Abstract Algebra II (3 + 0)

MTH 3110 or permission of instructor Prerequisite:

This course is a continuation of MTH 3110 with emphasis on an in-depth study of the properties of the structures introduced in MTH 3110. It includes Sylow theory, ideals and their

properties, principal ideal domains, field extensions and finite fields.

MTH 4150-3 Elementary Number Theory (3 + 0)

Prerequisite: MTH 3100 or permission of instructor

This course introduces the basic concepts of number theory including the Euclidean algorithm, congruences, number-theoretic functions, and the Chinese remainder theorem.

MTH 4210-4 Probability Theory (4 + 0)

Prerequisites: MTH 3210 with a grade of "C" or better and senior standing, or permission of instructor

This is a course in the theory of discrete and continuous probability with applications in the sciences and engineering. It includes sample spaces, combinatorial probability, random variables, sets of random variables and random sequences, conditional probability, expectation, and special distributions. It also includes beginning analysis of Markov chains. (Senior Experience)

MTH 4220-4 Stochastic Processes (4 + 0)

Prerequisite: MTH 4210 with a grade of "C" or better, or permission of instructor

This course is an introduction to random processes with applications in the sciences and engineering. It includes examples and properties of stochastic processes, specifically, it includes discrete and continuous Markov processes, the exponential distribution and Poisson

process, and other processes including queuing theory.

MTH 4230-4 Applied and Computational Statistics (4 + 0)

Prerequisite: MTH 3220 with a grade of "C" or better, or permission of instructor

This course will cover advanced methods in statistics, including regression and multivariate analysis. Additional topics will be chosen from time series, survival analysis, sampling, bootstrap methods, Taguchi designs, or others chosen by the instructor. The students will use sta-

tistical computer packages.

MTH 4290-1 Senior Statistics Project (1 + 0)

Prerequisites: MTH 3210, MTH 3220, MTH 4210, and permission of instructor

In this course, students will apply the statistical techniques covered in previous course work to a real world situation. The students will write a report containing a description of the problem, statistical tools used, design of experiments, analysis, and results of the study.

MTH 4390-1 Mathematics Senior Seminar (1 + 0)

Prerequisites: senior standing in mathematics and permission of instructor

This course will provide each student a closer examination of selected topics from the required core courses and from four upper-division mathematics courses selected from courses the student has taken. The course will concentrate on allowing the students to

increase their theorem-proving and problem-solving skills.

MTH 4410-4 Advanced Calculus I (4+0)

Prerequisites: MTH 2420, MTH 3100, and senior standing, or permission of instructor

This is the first course of a two-semester sequence that includes a treatment of calculus with emphasis on proofs of theorems. The topics covered will be selected from: structure of the real number system, infinite series, vector calculus, applications of partial differentiation,

integration, and function theory. (Senior Experience)

MTH 4420-3 Advanced Calculus II (3 + 0)

Prerequisite: MTH 4410 or permission of instructor

This course is a continuation of MTH 4410.

MTH 4450-4 Complex Variables (4 + 0)

Prerequisite: MTH 2420 or permission of instructor

This course is an introduction to complex numbers, analytic functions, conformal mapping,

contour integrals, and residues and poles.

MTH 4480-4 Numerical Analysis I (4+0)

Prerequisites: MTH 1510 or CŚ 1050, MTH 3140 or MTH 2140, MTH 2410, all with a grade of "C" or better,

senior standing, and knowledge of Mathematica, or permission of instructor; knowledge of Mathematica can be satisfied by MTH 2530 or both first and second semester calculus where

Mathematica is used -

This course includes numerical solutions of algebraic and transcendental equations, numerical differentiation and integration, numerical linear algebra, and polynomial interpolation.

The use of a computer is an essential part of this course. (Senior Experience)

MTH 4490-4 Numerical Analysis II (4 + 0)

Prerequisites: MTH 3420 and MTH 4480 with grades of "C" or better, or permission of instructor

This course includes approximation of functions, non-linear systems, numerical solutions of

differential equations, and numerical techniques of integration.

MTH 4590-1 Applied Mathematics Senior Seminar (1 + 0)

Prerequisites: MTH 3420, MTH 4480, and permission of instructor

This course will provide a closer examination of selected topics from the required courses in the Applied Mathematics emphasis, allows the students an opportunity to increase their problem-solving skills, and further exposes the students to mathematical software.

MTH 4600-1 Seminar in Problem Solving (1+0)

Prerequisites: MTH 3100 or MTH 3420 or permission of instructor

This is a seminar in mathematical problem solving. Students will investigate factors of problem solving, such as belief systems, control mechanisms, heuristics and mathematical resources. This investigation will be carried out in the context of working on a collection of problems designed to illustrate these factors. Problems from the William Lowell Putnam National Mathematics Examination are included in this collection.

MTH 4640-4 History of Mathematics (4+0)

MTH 3110, MTH 3140, MTH 3210, MTH 3650, all with grades of "C" or better, senior stand-Prerequisites:

ing, or permission of instructor

In this course, students will learn about the history of mathematics through the discussion of mathematical problems from ancient to modern times and the people who formulated or solved them. (Senior Experience)

MTH 4660-3 Topology (3+0)

MTH 3100 or permission of instructor Prerequisite:

This course will include topological spaces, functions, mappings and homeomorphisms, con-

tinuity, compactness, and metric spaces.

MATHEMATICS TEACHING AND LEARNING

MTL 3600-3 Mathematics of the Elementary Curriculum (3 + 0)

Prerequisite: MTH 2620, community college course MAT 156, or permission of the Department of Math-

ematical and Computer Sciences

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 to important mathematical concepts they will be required to teach; (2) turn their attention from understanding their own mathematical thinking, and the thinking of their classmates, to understanding the mathematical thinking of children; (3) lay the foundation for being able to learn mathematics from teaching.

MTL 3620-4 Mathematics of the Secondary Curriculum (4+0)

Prerequisites: MTH 3100 and at least 12 additional hours of upper division mathematics, all with grades of

"C" or better, or permission of instructor

This course, to be taken in the semester immediately prior to MTL 3630, approaches the mathematical concepts outlined in the Colorado Model Content Standards for Mathematics from an advanced perspective. The course uses standards-based curriculum materials as the focus for: (1) exploration of the central ideas of the mathematics curriculum in grades 7 through 12 and the connections among them, and (2) making explicit the connections between content covered in the mathematics courses required for the major and content taught in the school mathematics classrooms.

MTL 3630-3 Teaching Secondary Mathematics (3 + 0)

MTL 3620 or permission of instructor Prerequisite: Corequisites: MTL 3638 or permission of instructor

This course examines teaching practice that supports conceptual understanding of mathematical ideas for all students in diverse classrooms. Prospective teachers who enroll in this course will analyze cases of teaching with particular attention to: planning for instruction; selecting and adapting curriculum materials; establishing classroom norms and expectations; fostering mathematical discourse; and assessing students' developing mathematical understanding. This course must be taken along with MTL 3638 in the semester immediately prior to MTL 4690 (Student Teaching and Seminar: Secondary 7-12). At the end of this course, students will have the intermediate to advanced skills in the selection, operation, and classroom use of technologies including graphing calculators, computers, and the Internet.

MTL 3638-2 Secondary Mathematics Field Experience (0 + 5.3)

Prerequisite: MTL 3620 or permission of instructor Corequisites: MTL 3630 or permission of instructor

Prospective teachers enrolled in this course will spend at least 80 hours with a mentor teacher in a secondary mathematics classroom. During this time, prospective teachers will apply the mathematical knowledge base developed in the mathematics major and in MTL 3620, and the framework for teaching developed in MTL 3630, to the problems of practice that arise in public-school classrooms of diverse learners. Prospective teachers in this course will direct a Secondary Mathematics Lesson Study, a mini-teacher work sample.

MTL 4690-12 Student Teaching and Seminar: Secondary 7–12 (1 + 42.7)

Prerequisites: completion of all mathematics course work and all teacher education course work required for licensure; department approval of all GPA requirements; completion of Application for

Student Teaching

This course is a 16-week, full-time field experience with a skilled mathematics mentor teacher, supervised by an "MTL mentor," the official college supervisor, in an accredited secondary school. Prospective teachers who enroll in this course will, with the close and continual support of the mentor teacher, take on increasing responsibility for, and learn from, all aspects of the work of a full-time mathematics teacher. Prospective teachers and their mentors will participate in two Secondary Mathematics Lesson Studies (which, together, constitute the teacher work sample), and in regular seminars conducted by the MTL mentor and other members of the Department of Mathematical and Computer Sciences.

METEOROLOGY

MTR 1400-3 Weather and Climate (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

This course introduces the fundamental physical processes in the atmosphere - heat and energy, temperature, pressure, wind, clouds, precipitation, and stability. These concepts provide the basis for understanding weather systems such as thunderstorms, tornadoes, and hurricanes. These processes are also applied to climatic patterns and the impacts of human activity on weather and climate, such as air pollution and climate change. This course does not apply toward a meteorology major or minor. (General Studies—Level II, Natural Science) (GT-SC2)

MTR 2400-4 Introduction to Atmospheric Science (3 + 2)

Prerequisite: successful completion of Level I mathematics requirement

This course provides a quantitative approach to understanding fundamental concepts in meteorology. Topics include radiation, heat balance of the atmosphere, thermodynamics, cloud formation, horizontal motion, general circulation of the atmosphere, and weather systems. In the laboratory sessions, students are introduced to surface and upper-air charts, thermodynamic diagrams, weather codes, and weather imagery. This is the introductory course designed for majors and minors in meteorology. Students receiving credit for MTR 2400 may not subsequently receive credit for MTR 1400.

MTR 2410-3 Weather Observing Systems (2 + 2)

Prerequisite: MTR 2400

This course provides a survey of the instruments and instrument systems used in operational and research meteorology. The theory of instrument measurement and error, operating principles, and method of operation of surface and upper air sensors, as well as radar and satellites, will be presented. The lab component of the course will involve the theory, use, calibration, and maintenance of instruments and the analysis and interpretation of the observations.

MTR 3100-3 Air Pollution (3 + 0) (ENV 3100-3)

Prerequisite: ENV 1200 or MTR 2400

This course examines the causes and control of air pollution. Topics include pollutant sources and sinks, regional and global-scale pollution problems, monitoring and sampling techniques, regulatory control, meteorological influences, and indoor air quality.

MTR 3400-4 Synoptic Meteorology (3 + 2)

Prerequisite: MTR 2400

This course presents a descriptive approach to the structure and behavior of mid-latitude, synoptic-scale weather systems. Primary topics include the physics of synoptic-scale air motion, the role of synoptic weather systems in the general circulation, jet streams, airmasses, fronts, and the application of these to cyclones and anticyclones. Elementary quasi-geostrophic theory and weather forecasting are introduced.

MTR 3410-2 Weather Analysis Techniques (1 + 2)

Prerequisite:

This is a course in interpretation, understanding, and analysis of weather data, focusing on conventional surface and upper-air data and use of these data in current weather diagnostics. Topics include traditional hand analysis of surface and upper-air weather maps, spatial and temporal cross-sections, thermodynamic diagrams, meso-analyses, and prognostic charts. These topics form the foundation for correct and efficient use of modern computer analysis. This is an essential course for operational and applied research meteorologists.

Radar and Satellite Meteorology (3+0)MTR 3420-3

MTR 2410 and MTH 1120 or MTH 1400 Prerequisites:

This course provides a physically based and theoretically grounded study of the uses of radar and satellites and their application to various meteorological problems. Basic theories of radar and satellites will be applied to the interpretation and analysis of various radar and satellite products.

MTR 3430-3

Atmospheric Thermodynamics (3 + 0) MTH 2410, PHY 2311, PHY 2321 and MTR 3400 Prerequisites:

This course is the first in the sequence of calculus-based, theoretical meteorology courses. Emphasis is on classical thermodynamics and its application to atmospheric processes. Main topics include the equation of state, first law of thermodynamics, adiabatic processes of dry and moist air, stability, thermodynamic diagrams, thermodynamic variables, and convection.

Physical Meteorology (3 + 0) MTR 3440-3

MTR 3430 and CHE 1800 Prerequisites:

This course is the second in the sequence of calculus-based, theoretical meteorology courses. Emphasis is on the application of classical physics to common processes in the atmosphere. Main topics include cloud and precipitation physics, atmospheric radiation, radiative transfer, lightning, optical phenomena and weather modification. (GT-1800)

MTR 3450-3 Dynamic Meteorology (3 + 0)

PHY 2331, PHY 2341, MTH 2420, and MTR 3430 Prerequisites:

Corequisite: MTH 3420

This course covers the fundamentals of fluid dynamics necessary for understanding largescale atmospheric motions. The focus of the course is the development, derivation, and analysis of the laws of conservation of mass, momentum, and energy, as they apply to middle latitude, synoptic scale weather systems.

MTR 3500-3 Hazardous Weather (3 + 0)

Prerequisites: MTR 1400 or MTR 2400 or AES 1400 and satisfaction of Level I General Studies course

requirements

This course considers the nature and causes of hazardous weather, the predictability of hazardous weather events, and the economic, sociological, and psychological impact of these events. The strategies for the protection of life and property from hazardous weather are also considered. (General Studies—Level II, Natural Science)

MTR 3710-3-6 Meteorological Cooperative Education I (0 + 9-18)

employment in a meteorological cooperative education position Prerequisite:

This course involves educational work experience with a consulting meteorologist, meteorological firm, or government agency. The learning process is under supervision of meteorology faculty and the meteorologist at the firm or agency.

MTR 3720-3-6 Meteorological Cooperative Education II (0 + 9-18)

Prerequisites: employment in a meteorological cooperative education position, and MTR 3710

This course involves educational work experience with a consulting meteorologist, meteorological firm, or government agency. The learning process is under supervision of meteorology faculty and the meteorologist at the firm or agency.

MTR 3730-3 Meteorological Cooperative Education III (0 + 9)

employment in a meteorological cooperative education position, and MTR 3720 Prerequisites:

This course involves educational work experience with a consulting meteorologist, meteorological firm or government agency. The learning process is under supervision of meteorology faculty and the meteorologist at the firm or agency.

MTR 4210-1 Forecasting Laboratory I (0 + 2)

Prerequisite: MTR 3410

This is a laboratory course in which the principles of synoptic meteorology and weather computer technology are used in developing a weather forecast. Students are introduced to computerized weather data access, display, and analysis using meteorological software applications. Students learn to use surface and upper-air data, satellite and radar imagery, numerical model output, and other weather data in the preparation of weather forecasts. Principles of weather briefing and forecast decision making are also introduced.

MTR 4220-1 Forecasting Laboratory II (0 + 2)

Prerequisite: MTR 4210

This course follows MTR 4210, Forecasting Laboratory I. Students practice the skills learned in MTR 4210 in a more independent setting, gaining experience in computerized data analysis, diagnosis, and weather forecasting.

MTR 4230-1 Forecasting Laboratory III (0 + 2)

Prerequisite: MTR 4220

This lab allows students to continue to develop skills learned in MTR 4220, Forecasting Laboratory II, in an independent setting, gaining experience in computerized data analysis, diagnosis, and weather forecasting. Forecast format is that of the National Collegiate Weather Forecasting Contest, allowing students to participate in the national contest, if desired.

MTR 4240-1 Forecasting Laboratory IV (0 + 2)

Prerequisite: MTR 4230

This lab allows students to continue to develop skills learned in MTR 4230, Forecasting Laboratory III, in an independent setting, using advanced computerized data analysis and diagnosis to generate a weather forecast. Forecasts format is that of the National Collegiate Weather Forecasting Contest, so students may participate in the national contest, if desired. Students may also lead weekly departmental weather briefings.

MTR 4400-3 Advanced Synoptic Meteorology (2 + 2)
Prerequisites: MTR 3450, MTH 3420 and PHY 2331

This course is a calculus-based examination of the three-dimensional structure of mid-latitude, synoptic-scale weather systems, emphasizing the application of kinematic and thermodynamic principles. Main topics include quasi-geostrophic theory, cyclone structure and evolution, diagnosis of vertical motion, jet streams, and frontogenesis. The lab component involves examples and exercises using computer-based analysis programs (e.g., GEMPAK and McIDAS) to diagnose current weather and case studies.

MTR 4410-3 Numerical Weather Prediction (3 + 0)

Prerequisites: MTR 3450, MTH 3420, and MTH 1510 or an equivalent course in an approved programming

language

This course presents the theoretical background to numerically modeling the atmosphere using the primitive equations. Current numerical models will be analyzed and finite-difference techniques will be applied to a simple computer model of the atmosphere developed during the course.

 $MTR\ 4440-3 \qquad Climatology\ (3+0)$

Prerequisite: MTR 3400

Climatology examines the characteristics, distributions, and causes of global and regional climate. Physical and dynamic mechanisms of climate are introduced. Spatial and temporal distributions of the main climate elements are studied, as are theories of past and future climates. A research paper involving climate data, statistical analysis and scientific method is required.

MTR 4500-3 Mesometeorology (2 + 2)

Prerequisite: MTR 3410

This is an advanced course in recognizing, understanding, and forecasting mesoscale weather events (severe thunderstorms, hailstorms, tornadoes, downslope windstorms, flash floods, snow-storms, etc.) with emphasis on theory, analysis of weather data, and forecast decision making.

MTR 4600-3 Senior Research Seminar (3 + 0)

Prerequisites: MTR 3450 and MTR 4440

This is a senior-level capstone course required of all meteorology majors. Students will engage in a research project that involves the application of scientific methodology to meteorological or climatological data and problem solving. Experience will be gained in literature searches, problem statement, data handling, statistical analysis, data presentation, and presentation of results. Technical writing and oral presentation skills are emphasized. (Senior Experience)

MUSIC

MUS 1000-3 Introduction to Music (3 + 0)

Prerequisites: ENG 1010 and ENG 1020, or permission of instructor

This course covers the elements and sources of music. Musical terminology is studied, discussed, and demonstrated. An historical and cultural understanding of the development of the most common musical genres of Western European art music is developed. The course is non-technical in nature and designed for students who are not music majors to develop competence in understanding music through guided listening. (General Studies—Level II, Arts

and Letters) (GT–AH1)

MUS 1010-3 Fundamentals of Music Theory (3 + 0)

This course covers the techniques of reading and writing music by teaching the fundamental principles of music notation and musical logic as they pertain to meter, rhythm, pitch, scales, key signatures, intervals, triads and the keyboard. The course is designed for non-music majors and for music majors with insufficient experience to qualify for MUS 1110. No previ-

ous training or experience in music is required.

MUS 1011-3 Fundamentals of Music Theory Lab I (0 + 2)

Pre/corequisite: MUS 1010 or permission of instructor

This course develops music reading, writing, and hearing skills through the application of traditional sight-reading and ear-training techniques. This course is designed for music majors who lack the necessary experience for placement into MUS 1120. No previous train-

ing or experience in music is required.

MUS 1110-3 Music Theory I (3 + 0)

Prerequisites: MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see

Department).

Corequisites: MÜS 1120 and MUS 161B

This course is the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition and the development of reading and hearing skills as they relate to these elements. It covers diatonic music based on the triad including tonic and dominant harmony, phrase structure and grouping, and melodic figuration and dissonance.

Aural recognition of materials is emphasized.

MUS 1120-1 Music Theory Lab I (0 + 2)

Prerequisites: MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see

department)

Corequisites: MUS 1120 and MUS 161B

Students will apply reading and hearing skills to the melodic, harmonic, rhythmic, textural, and formal elements of music through singing and the use of the keyboard. This course covers

diatonic music based on the triad.

MUS 1130-3 Music Theory II (3 + 0)

Prerequisites: MUS 1110, MUS 1120, MUS 161B

Corequisite: MUS 1140, MUS 162B

This course is the continuation of MUS 1110. It includes the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition and the development of reading and hearing skills as they relate to these elements. It covers predominant chords and other diatonic chords, seventh chords, harmonic sequences, and an introduction to tonicization and modulation. Aural recognition of materials is emphasized.

MUS 1140-1 Music Theory Lab II (0 + 2)
Prerequisites: MUS 1110, MUS 1120, MUS 161B

Corequisite: MUS 1130, MUS 162B

This course is a continuation of MUS 1120, and covers diatonic seventh chords and elementary

chromaticism.

MUS 1210-3 European Music Literature I (3 + 0)

Pre/Corequisites: MUS 1010 or MUS 1110 or permission of instructor

This course is intended as an introduction to the study of music for music majors. The primary area of study is the art music having its origins in Western Europe, including the historical background, structure, style and function of music in the Medieval, Renaissance, Baroque, Classical, Romantic and Modern eras. In addition, computer, library and research skills necessary for success in a college career will be acquired.

MUS 1220-3 World Music Literature (3 + 0)

Prerequisites: ENG 1010; MUS 1210 or a passing grade on the Music History Placement Exam (see depart-

ment); or permission of instructor

Pre/Corequisites MUS 1010 or MUS 1120 or a passing grade on the Music Theory I Placement Exam (see

department)

This course is intended for music majors who have a basic knowledge of European Art Music. The class develops the understanding of musical style and aesthetic viewpoints of various cultures and the function that music fulfills in these diverse societies. The student will not only encounter new musical expressions but also the philosophies and world views which

accompany them..

MUS 1400-2 Vocal Diction I (2+0)

Students will engage in an in-depth study of accurate articulation and pronunciation for

singing in English, Italian, Spanish, and Latin.

MUS 1410-2 Vocal Diction II (2 + 0)

Prerequisite: MUS 1400

Students will engage in an in-depth study of accurate articulation and pronunciation for

singing in German and French.

MUS 161A-1 Class Voice I (0 + 2)

Prerequisites: MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see depart-

ment) or permission of instructor

This course offers class instruction in voice to students with little or no previous training.

MUS 161B-1 Class Piano I (0+2)

Prerequisites: MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see

department) or permission of instructor

This course offers class instruction in piano to students with little or no previous training.

MUS 161K-1 Class Guitar I (0+2)

Prerequisites: MUS 1010 or MUS 1020 or a passing score on the Music Theory I Placement Exam (see

department) or permission of instructor

This course offers class instruction in guitar to students with little or no previous training.

MUS 162A-1 Class Voice II (0 + 2)

Prerequisite: MUS 161A or permission of instructor

This course is a continuation of MUS 161A.

MUS 162B-1 Class Piano II (0 + 2)

Prerequisite: MUS 161B or permission of instructor

This course is a continuation of MUS 161B.

MUS 162K-1 Class Guitar II (0 + 2)

Prerequisite: MUS 161K or permission of instructor

This course is a continuation of MUS 161K.

MUS 1650-2 Basic Music Technology (0 + 2)

Prerequisite: MUS 1110 or permission of instructor

This course is intended to provide music majors with the technology skills necessary for their

study of music. The following topics will be introduced: MIDI synthesizers, music notation software, sequencing software, e-mail, Web authoring, and research tools on the Web.

MUS 1710-2 Private Instruction I (2 + 0 + 0.5)

Prerequisite: performance of a successful private instruction audition and successful private instruction

audition and successful completion of MUS 1010 or the Music Theory I Placement Exam (see

department)

Corequisite: at least one other music course and the major ensemble in the private instruction area being studied

This course covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different

area of study.

MUS 1720-2 Private Instruction II (2 + 0 + 0.5)

Prerequisite: MU

Corequisite: at least one other music course and the major ensemble in the private instruction area being studied

This course is a continuation of MUS 1710, and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may

be repeated for credit in a different area of study.

MUS 2040-3 An Integrated Approach to Art and Music (3 + 0) (ARTH 2100) (This course is not

approved for guaranteed transfer to other Colorado colleges and universities)

Prerequisite: 24 undergraduate credit hours, including ENG 1010 and ENG 1020, or permission of instructor

This course enables students to develop awareness and knowledge of the major periods, styles, and landmark works in worldwide visual arts and music. Philosophical and aesthetic foundations of art, music, and the creative process will be explored to enhance this study. Basic elements of music and art will be identified and applied to the study of masterworks. The concepts presented in this integrated approach will be applied to develop artistic sensibility. Credit will be granted for only one prefix: MUS or ARTH. (General Studies—Level II,

Arts and Letters)

MUS 2050-1 Music Lab for the Elementary Teacher (0 + 2)

Pre/Corequisite: ARTH 2100 or MUS 2040

This laboratory course enables students to apply the content and methods of music education, including the Colorado Model Content Standards for Music, to elementary curriculum planning, implementation, and assessment. Concepts from ARTH 2100/MUS 2040 will be developed for the purpose of integrating music into the elementary curriculum. Students will apply creative and critical thinking to solve artistic problems using music and expressive movement. Appropriate methods of integrating music into the elementary curriculum,

including literacy and mathematics, will be explored.

MUS 2110-3 Music Theory III (3 + 0)

Prerequisites: MUS 1130, MUS 1140, MUS 162B

Corequisite: MUS 2120

This course is the continuation of MUS 1130. It includes the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition and the development of reading and hearing skills as they relate to these elements. It covers chromaticism of the Romantic period leading to 20th century techniques. Aural recognition

of materials is emphasized.

MUS 2120-1 Music Theory Lab III (0 + 2)
Prerequisites: MUS 1130, MUS 1140, MUS 162B

Corequisite: MUS 2110

Students will recieve training in sight-singing, rhythmic coordination, establishing firm sense of pitch and aural recognition of the materials introduced in MUS 1130, Music Theory II. Practical theoretical skills applied to the keyboard. Keyboard realization of advanced

chromatic harmony and impressionism.

MUS 2130-3 Music Theory IV (3 + 0)
Prerequisites: MUS 2110, MUS 2120

Corequisite: MUS 2140

This course is a continuation of MUS 2110. It includes the study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition and the development of reading and aural skills as they relate to these elements. It covers music from the post-Romantic era to the present. Emphasis is on the compositional techniques used in Impressionism and the modern schools of twentieth–century composition.

MUS 2140-1 Music Theory Lab IV (0 + 2)
Prerequisites: MUS 2110, MUS 2120

Corequisite: MUS 2130

This course is a continuation of MUS 2120. The primary focus of the course is highly chromatic and post-tonal music, including increased use of dissonance and complex rhythms..

MUS 2340-2 Foundations of Music Education (2 + 0)

Prerequisites: MUS 2110

This course is designed to acquaint the student with social and intellectual foundations of music education in historical and contemporary frameworks. Students will become familiar with philosophical and psychological principles of aesthetic education, curriculum design and implementation, teaching music in diverse contexts, legal and financial structures which affect teaching, and professional development resources. Students will examine the role of education and music education in society, and will develop a personal philosophy for teaching music.

MUS 261B-1 Class Piano III (0 + 2)

Prerequisite: MUS 162B or permission of instructor.

This course is a continuation of MUS 162B.

MUS 262B-1 Class Piano IV (0 + 2)

MUS 261 or permission of instructor. Prerequisite:

This course is a continuation of MUS 261B and meets the piano proficiency requirement for

students in music education and composition programs..

MUS 2650-1 Music Technology for Educators (0 + 2)

Prerequisite: MUS 1110 or permission of instructor

This course is intended for music education majors. The focus is on learning skills necessary for a career in music education: music notation software for the creation of musical scores and parts, sequencing software for composing and transcribing, and the use of databases and

spreadsheets to manage the varied activities of a music teacher.

MUS 2710-2 Private Instruction III (2 + 0 + 0.5)

Prerequisite:

MUS 1720

Corequisite:

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 1720. and covers individual instruction in voice, piano, organ, guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a

different area of study.

Private Instruction IV (2+0+0.5)MUS 2720-2

Prerequisite: Corequisite:

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 2710, and covers individual instruction in voice, piano, organ, guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a

different area of study.

MUS 2730-4 Performance III (2+0+1)

Prerequisites: Corequisite:

MUS 1720, MUS 1110, MUS 1120 and a successful performance concentration audition at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 1720 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different area of study.

MUS 2740-4 Performance IV (2+0+1)

Prerequisites: Corequisite:

MUS 2730 and a successful performance concentration audition

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 2730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different area of study.

Ensemble (0 + 2.5)MUS 2810-1

permission of instructor Prerequisite:

This course is designed to explore and study perormance techniques through the rehearsal and performance of standard ensemble literature. Ensembles may also serve as reading labs

for conducting classes. This course may be repeated for credit.

MUS 3000-3 Musics of America (3 + 0)

Prerequisite: MUS 1000 or MUS 1210 or permission of instructor

This course develops an understanding of the musical style, aesthetic viewpoints, and function that folk and popular music fulfills in the many cultures of the United States. The student will encounter not only new musical expressions and their history, but will also see how the musical products of these cultures have mixed to form new musical blends. This knowledge is synthesized in a final project in which the student investigates the music of an American ethnic minority culture. (General Studies—Level II, Arts and Letters, Multicultural)

MUS 3020-3 Jazz Styles - America's Music (3 + 0)

MUS 1000 or permission of instructor Prerequisite:

This class explores the many facets of American jazz through a survey of important events and major figures, including their effect on music through their actions and those of their followers. Students learn the tools of active listening by gaining a greater understanding of the musical elements through listening, reading, and performing. The course covers the history of African-American musical expression, including minstrelsy, ragtime, blues, New Orleans and classic jazz, bebop and related movements, the innovations of Coleman and Taylor, and the jazz of the present. (General Studies-Level II, Arts and Letters, Multicultural)

MUS 3050-3 Musics of the World (3 + 0)

MUS 1000 or permission of instructor Prerequisite:

This course develops an understanding of the diverse styles, aesthetic systems, and functions of music in the many cultures of the world and the United States. The student will not only encounter new musical expressions but also the history of diverse cultures and the world

views that accompany them. (General Studies—Level II, Arts and Letters)

MUS 3100-3 Counterpoint (3 + 0)

MUS 2110 and MUS 2120 Prerequisites:

This course involves study of modal vocal polyphony (Lassus, Palestrina) of the sixteenth century, and tonal contrapuntal textures of the eighteenth century (J.S. Bach) and contrapuntal techniques of the 20th century (Hindemith). Students will compose in two to four independent voices. All contrapuntal techniques studied in historical perspective, including

analysis of polyphonic forms.

MUS 3150-2

Instrumental and Choral Scoring and Arranging (2+0) MUS 2110, MUS 2120, MUS 3460, & MUS 3410 or MUS 3420 or MUS 3430 or MUS 3450 Prerequisites:

The study of the technical capabilities and notation of all the instruments and voices, individually and in ensembles. The transcription of instrumental and choral recordings and the

composition of scores for band, jazz band, orchestra, and chorus.

MUS 3200-3 Topics in Music History and Literature: Variable Topics (3 + 0)

MUS 3220 or permission of instructor Prerequisite:

This course is designed to study the history and literature of a single musical style, era, medium, or composer. This course may be repeated for credit under different topics.

MUS 3210-3 Music History I (3 + 0)

MUS 1220 Prerequisite: Pre/Corequisite: MUS 2110

This course is intended for music majors. It comprises a survey of music history and musical

style from the music of the ancient Greeks through the early eighteenth century in Europe.

MUS 3220-3 Music History II (3 + 0)

Prerequisite: MUS 3210

Prerequisite or Corequisite: MUS 2130

This course is intended for music majors and comprises a survey of music history and musical style of the art music having its origins in Western Europe from the mid-eighteenth cen-

tury up to the present time.

MUS 3320-1 Supervised K-12 Music Field Experience I (0 + 5.33)

MUS 2340 Prerequisite: Corequisite: EDS 3110

The student will work with teachers in multicultural area K-12 schools in an eighty-hour supervised field experience. The course is designed to integrate concepts developed in EDS 3110 with practice in classroom environments, and must be taken concurrently with EDS 3110.

MUS 3350-2 General Music Methods and Materials I (1+2)

MUS 2340 Prerequisite:

Students will develop competencies for teaching general music in the elementary and secondary school music classroom. Course content will include an overview and experiences with Orff, Dalcroze, and Kodaly materials and methodologies; classroom and instructional management; assessment strategies; and the role of general classroom music instruction in the total process of education.

The Inclusive Music and Art Classroom (1 + 2) (ART 3605) MUS 3390-2

Pre/Corequisites: MUS 2340 or ART 3601 or permission of instructor

This course provides a survey of various exceptionalities of K-12 students, ranging from mild to severe, with a focus on meeting the needs of these students in music and art classrooms. Information about child abuse and medical conditions, and their possible effects on student learning and behavior, is provided. Teacher- candidates are introduced to special education processes with music and art content that facilitates the learning process of students with special needs, including strategies and curriculum adaptations for inclusion in music and art classrooms. Credit will be granted for only one prefix: ART or MUS.

MUS 3410-1 String Techniques and Pedagogy (0 + 2)

The course offers practical instruction in the technique of playing and teaching string instruments, as well as the organization of string programs in the public schools.

Woodwind Techniques and Pedagogy (0 + 2) MUS 3430-1

This course covers practical instruction in playing woodwind instruments with an emphasis on acquainting students with techniques and materials necessary in teaching woodwinds.

MUS 3440-1 Jazz Improvisation and Pedagogy (0 + 2)

Prerequisite: MUS 2130

This course enables students to develop jazz improvisation performance skills as well as strategies for teaching instrumental and choral music in the areas of popular and jazz styles.

MUS 3450-1 Brass Techniques and Pedagogy (0 + 2)

This course covers practical beginning instruction in playing brass instruments with an emphasis on acquainting students with techniques and materials necessary for teaching brass instruments.

MUS 3460-1 Percussion Techniques and Pedagogy (0 + 2)

This course covers practical beginning instruction in playing percussion instruments with an emphasis on acquainting students with techniques and materials necessary for teaching per-

cussion instruments.

Marching Band Techniques and Materials (0+2)MUS 3480-1

Prerequisite: at least sophomore standing

This course is designed to familiarize the student with concepts, techniques, and skills required to direct a compelte marching band program in the contemporary school setting. Additionally, the student will become acquainted with the Drum Corps International format and the

traditional precision drill and pageantry formats.

MUS 3510-2 Basic Conducting (2+0)

MUS 2130 and MUS 2140 and MUS 262B, plus four semesters of MUS 2810 and/or MUS Prerequisites:

This is a basic course in the fundamentals of conducting. The fundamental skills of conducting wil be presented and practiced.

MUS 3520-3 **Choral Conducting and Literature (3 + 0)**

MUS 3510 and MUS 262B Prerequisites:

This course is designed to provide an advanced study of choral conducting, including physical gesture, score study, rehearsal techniques, and conducting in performance. In addition, the course will acquaint the student with choral literature appropriate for beginning through

advanced ensembles.

MUS 3530-3 Instrumental Conducting and Literature (3 + 0)

Prerequisites: MUS 3510 and MUS 262B

This course is designed to provide an advanced study of instrumental conducting, including-physical gesture, score study, rehearsal techniques, and conducting in performance. In adddition, the course will acquaint the student wth historical traditions, style, and instrumental literature appropriate for beginnin through advanced ensembles.

MUS 3650-2 Basic Techniques of Composition (2 + 0)

Prerequisite: MUS 2110 or permission of instructor

This course involves the study of the craft of musical composition, from practical, theoretical, and aesthetic points of view, through the discusion and performance of individual writing projects. This course may be repeated for credit.

MUS 3710-2 Private Instruction V (2 + 0 + 0.5)MUS 1130, MUS 1140, MUS 2720

Prerequisite: Corequisite:

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 2720, and covers individual instruction in voice, piano,

organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course

may be repeated for credit in a different area of study.

MUS 3720-2 Private Instruction VI (2 + 0 + 0.5)

Prerequisite: Corequisite:

MUS 3710

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 3710, and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. A thirty-minute junior recital may be substituted for the jury requirement for MUS 3720. This class may be repeated for credit in a different area of study.

Performance V(2+0+1)MUS 3730-4

Prerequisites: Corequisite:

MUS 2110, MUS 2120, MUS 2740 and a successful performance concentration audition at least one other music course and the major ensemble in the private instruction area being studied

This course is a continuation of MUS 2740 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may be repeated for credit in a different

area of study.

MUS 3740-4 Performance VI (2 + 0 + 1)

Prerequisites: Corequisite:

MUS 3730 and a successful performance concentration audition

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 3730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. A thirty-minute junior recital may be substituted for the jury requirement for MUS 3740. This course may be repeated for credit in a different area of study.

MUS 3810-1 Ensemble (0 + 2.5)

Prerequisites:

at least junior or senior standing and permission of instructor

This course is a continuation of MUS 2810 and is designed to explore and study performance techniques through the rehearsal and performance of standard ensemble literature. Ensembles may also serve as reading labs for conducting classes. This course may be repeated for credit.

MUS 4110-2 Analysis of Music (2 + 0)

Prerequisites:

MUS 2130 and MUS 2140

This course involves advanced analytical techniques applied to various music forms and styles. Traditional and modern methods of analysis are discussed.

MUS 4320-1 Supervised K-12 Music Field Experience II (0 + 5.33)

MŪS 3320 and MUS 3350 Prerequisites: Corequisites: MUS 4360 or MUS 4370

This course is a continuation of MUS 3320.

The student will work with teachers in multicultural area K-12 schools in an eighty-hour supervised field experience. The course is designed to integrate concepts developed in MUS 4360 or MUS 4370 with practice in classroom environments, and must be taken concurrently

with either MUS 4360 or MUS 4370.

Instrumental Music Methods and Materials (1 + 2) MUS 4360-2

Prerequisite: MUS 3350

Students will develop competencies for teaching instrumental music at the elementary and secondary school levels. Course content will include methods and materials, classroom and instructional management, assessment strategies, planning and organization of the instrumental music program, and the role of instrumental music instruction in the total process of education. Students must take MUS 4320 with either this course or MUS 4370.

MUS 4370-2 **Vocal Music Methods and Materials (2 + 0)**

Prerequisites: MUS 3350

Students will develop competencies for teaching vocal music at the elementary and secondary school levels. Course content will include methods and materials, classroom and instructional management, assessment strategies, planning and organization of the vocal music program, and the role of vocal music instruction in the total process of education. Students must take

MUS 4320 with either this course or MUS 4370.

MUS 4410-3 Piano Pedagogy (3 + 0) Prerequisite: Permission of instructor

This course is a study of the methods, literature, edtions, and techniques used in teaching piano pri-

vately and in groups.

Vocal Pedagogy (2+0) MUS 4420-2

Prerequisites: MUS 271A (Private Voice III) or MUS 273A (Performance III in Voice)

This course consists of a series of lectures, demonstrations, and discussions about physiology of the human voice (anatomy of the larynx, respiration, resonation, and articulation), young voices

and how to teach them, and methods and philosophy of teaching voice.

MUS 4710-2 Private Instruction VII (2 + 0 + 0.5)

Prerequisite:

Corequisite: at least one other music course and the major ensemble in the private instruction area being studied

This course is a continuation of MUS 3720 and covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may

be repeated for credit in a different area of study.

MUS 4720-2 Private Instruction VIII (2 + 0 + 0.5)

Prerequisite: Corequisite:

MUS 4710

at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 4710. It covers individual instruction in voice, piano,

organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. This course may

be repeated for credit in a different area of study.

MUS 4730-4

Performance VII (2+0+1) MUS 3740 or MUS 4720 and a successful performance concentration audition Prerequisites: Corequisite: MUS 4790 and the major ensemble in the private instruction area being studied

> This course is a continuation of MUS 3740 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, electric bass, electric guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. At the end of the semester, the student must successfully perform before a faculty jury committee in order to pass the course. The repertoire for the completion of MUS 4740, Senior Recital Performance, must be determined in this course. This course may be repeated

for credit in a different area of study.

MUS 4740-4 Senior Recital Performance (2 + 0 + 1)

Prerequisite: MUS 4730, satisfaction of all Level I and Level II General Studies course requirements, and senior standing. For senior experience credit, the student must also complete MUS 4790

Corequisite: at least one other music course and the major ensemble in the private instruction area being studied This course is a continuation of MUS 4730 and is only for students majoring in music performance. It covers individual instruction in voice, piano, organ, guitar, the standard band and orchestral instruments, composition, or conducting. It includes attendance at departmental recitals/performances and a performance class in the area of study. During the semester, the

student will perform a fifty-minute Senior Recital that must be approved by the process specified on the Senior Recital Hearing Request form. This course may be repeated for credit in a

different area of study. (Senior Experience)

MUS 4790-1 Senior Recital Project (1 + 0)

Prerequisites: MUS 3220. For senior experience credit the student must also complete MUS 4740, satisfy all

Level I and Level II General Studies course requirements, and have senior standing

Corequisite: MUS 4730

This course involves writing program notes for the repertoire selected for MUS 4740, Senior

Recital Performance. (Senior Experience)

MUS 4950-3 Senior Project (3 + 0)

Prerequisites: MUS 3220, permission of the instructor, satisfaction of all Level I and Level II General Studies

course requirements, and senior standing

This is a course in which the student prepares a research project in the area of music theory, history, literature, composition, performance, or pedagogy. Although the senior project may include an aspect of performance, the body of the project shall be scholarly and well docu-

mented according to departmental standards. (Senior Experience)

MUS 4960-3 Senior Composition Project (3 + 0)

Prerequisites: MUS 3741, satisfaction of all Level I and Level II General Studies course requirements, and

senior standing

Corequisites: MUS 2810 or MUS 3810, and at least one other music course

Course Description: This is the final composition project in which students compose, oversee public performances of their compositions, and give a public lecture on their compositional

activities. (Senior Experience)

MUS 4971-6 Student Teaching and Seminar: Elementary (1 + 40)

Prerequisites: Successful completion of all requirements for the Bachelor of Music Education major, the

teacher licensure program, and general studies courses. Initial sign-off on program requirements (e.g. teacher work sample/portfolio) by faculty advisor. For Senior Experience credit,

the student must also complete MUS 4972.

Corequisite: MUS 4972

This is a supervised, full-time, eight week student teaching experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision, and assessment of learners (grades K-6). Regularly scheduled observations and 8 hours of seminars conducted by an appointed college supervisor are part of the student teaching requirement. Teacher-candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSCD recom-

mendation for teacher licensure. (Senior Experience)

MUS 4972-6 Student Teaching and Seminar: Secondary (1 + 40)

Prerequisites: Successful completion of all requirements for the Bachelor of Music Education major, the

teacher licensure program, and general studies courses. Initial sign-off on program requirements (e.g. teacher work sample/portfolio) by faculty advisor. For Senior Experience credit,

the student must also complete MUS 4971.

Corequisite: MUS 4971

This is a supervised, full-time, eight week student teaching experience in an accredited public or private secondary school, providing increasing responsibility for the teaching, supervision, and assessment of learners (grades 7-12). Regularly scheduled observations and 8 hours of seminars conducted by an appointed college supervisor are part of the student teaching requirement. Teacher-candidates must complete a teacher work sample and be rated as proficient in all Performance-Based Standards for Colorado Teachers to receive MSCD recom-

mendation for teacher licensure. (Senior Experience)

NATIVE AMERICAN STUDIES

Introduction to Native American Studies (3+0) NAS 1000-3

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement tests

This course provides an opportunity to study the indigenous population of the United States. The primary focus of the course is on the historical, political, social, and economic relationship between Native Americans and how this culture is imbedded in the American culture.

(General Studies—Level II, Social Sciences; Multicultural)

Women of Color (3 + 0) (AAS 2100, CHS 2100, WMS 2100) NAS 2100-3

Prerequisites: AAS 1010 or CHS 1000 or WMS 1001; or permission of instructor

Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of these differences and their significance according to race/ ethnicity and class are central to this course. The similarities among diverse groups of women will also be examined in order to better understand the complexity of women's lives. To focus the discussion the course will cover work; families; sexuality and reproduction; violence; religion; and politics. Credit will be granted for only on prefix: WMS or AAS or CHS or NAS. (General Studies-Level II, Social Sciences; Multicul-

tural) (GT-SS3).

NAS 3090 **Current Topics in Native American Studies**

Prerequisites: NAS 1000 or permission of instructor

The course will provide an in-depth study of an important topic in Native American Studies.

This course may be repeated for credit under different topics.

NAS 3200-3 Native American Politics (3 + 0) (PSC 3200)

NAS 1000 or PSC 1020 or permission of instructor, and completion of all Level I General Prerequisites:

Studies course requirements

The focus of this course is to examine Native Americans as political beings. Important questions and strategies for understanding the rise and expansion of native politicization will be identified. In general, the students will be able to explain why, how and when movements that demand change emerge. By comparing and contrasting the Native American experience with other powerless groups in society, the students should be able to trace these historical and political factors that led to a change in the movement of insurgency and analyze the specific actions by insurgents that inevitably resulted in the failure or success of those specific actions. Credit will be granted for only one prefix: NAS or PSC. (General Studies—Level II, Social

Sciences; Multicultural)

Land Use, Culture and Conflict (3 + 0) (GEG 3300, PSC 3300) NAS 3300-3

ENV 1400 or NAS 1000 or PSC 1010 and junior or senior standing Prerequisites:

This course id designed to introduce students to theories, approaches and controversies concerning use of land and resources on Indian Reservations. Reading and discussion will be directed toward questions related to differing views on land use and resources, how modernization impacts traditional settings, as well as treaties and governmental policies that govern Indian land. Case studies which illustrate current conflict/resolution issues between Native Americans and other actors such as federal, state and local governments will be examined. Credit will be

granted for only one prefix. (General Studies - Level II, Social Science; Multicultural)

NURSING

NUR 3100-4 Transitions in Nursing (4+0)

Admission to Baccalaureate Registered Nurse Completion Program Prerequisite:

This course facilitates transition to the role of the baccalaureate nurse. This course begins the process of increasing the breadth and depth of prior nursing knowledge with an emphasis on nursing theories, evidence-based practice, regulatory aspects of the profession, professional behavior and individual accountability. This course integrates communication, critical

thinking, and cultural awareness.

NUR 3400-3 Nursing Research (3 + 0)

Pre/Corequisite: A statistics course

This course introduces students to the research process and research utilization in evidencebased practice. Emphasis is placed on identifying researchable problems through literature

review and analysis as well as study.

NUR 3650-3 Ethical Decision Making in Professional Nursing Practice (3 + 0)

Prerequisite: Admission to Baccalaureate Registered Nurse Completion Program.

Pre/corequisite: NUR 3100

This course prepares the student of professional nursing for ethical decision making in clinical practice. The foundation for the course consists of an introduction to bioethical theories and principles as well as ethical decision making models applied to professional nursing. Students will apply critical thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing the ethical dilemmas encountered in professional practice. Ethical decision making models are applied to clinical dilemmas encountered by patients at the beginning, middle, and end of life. Personal, professional, cultural and spiritual values are

examined in the context of ethical dilemmas and their resolution in health care.

NUR 3700-3 Health Assessment 3 (3+0)

Licensed to practice registered nursing in Colorado Prerequisite:

Pre/corequisite: NUR 3100

NUR 3750-3 Clinical Pathophysiology in Nursing(3 + 0)

Prerequisite: Admission to Baccalaureate Registered Nurse Completion Program

This course is designed to familiarize the nursing student with the science of pathophysiology. Diseases are discussed with an emphasis on clinical applicability. Critical thinking skills

will be utilized in determining the rationale for alterations in body functions.

NUR 3800-3 Advances in Clinical Practice (3 + 0)

NUR 3100 Prerequisite:

This course is designed to update students about evolving clinical issues and practice trends. Topics include patient safety and error reduction, pathophysiology, technology, pharmacology, and current clinical practices. The student is expected to access electronic information

NUR 4000-6

Community Health Nursing (4 + 2) NUR 3100, NUR 3650, and NUR 3750 Prerequisite:

This course provides the tools for critical analysis of the principles of health promotion and disease prevention of families and communities. Cultural diversity, ethics, legal and political responsibility of the nurse in leadership roles of advocate, change agent, collaborator, resource person and teacher are emphasized. The student applies knowledge of public health science, and nursing theories to make assessments of the client/community. The student applies theories and models from the fields of education, nursing and public health to community nursing, including vulnerable populations and violence and family health risks in 90

hours of clinical practice within a community setting.

NUR 4300-4 Leadership and Management for Professional Nursing Practice (4 + 0)

Prerequisites: Admission to Baccalaureate Registered Nurse Completion Program: NUR 3100 and successful

completion of all courses in accordance with the curriculum sequence.

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 commu-

nication.

NUR 4850-4 Nursing Senior Experience (1+6)

Completion of all other NUR courses in sequence. Prerequisites:

Pre/corequisite:

This capstone course provides senior nursing students with the opportunity to synthesize program concepts and theories. The clinical component is designed to explore clinical experiences new to the student. Students collaborate with faculty and clinical preceptor to develop personal learning objectives that relate to program outcomes. (Senior Experience)

NURSING, ACCELERATED

Fundamentals of Nursing Care (0+4) NURA 3010-2

Admission to the Accelerated Nursing Program Prerequisite:

This course is an introduction to nursing that includes orientation to the nursing process, nursing diagnoses, and critical thinking in developing a plan of care. A faculty-facilitated simulation lab is the environment used to teach the steps for safe delivery of basic care skills. Critical thinking and communication processes will be integral to the learning of basic skills.

Introduction to Nursing Gerontology (2 + 3)NURA 3110-3

Pre/corequisite: Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum

sequence earning a "C" or better

This course introduces the student to principles of life transitions and nursing care of older adults. Classroom and clinical experiences emphasize understanding the impact of individual and societal perceptions of aging and the aging process. This course includes cultural legal, and environmental factors, and the diverse health status found in the older adult. Communication is developed as an essential feature of the care of the older adult in a variety of settings.

NURA 3210-2 Health Assessment (2 + 4)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum Prerequisite:

sequence earning a "C" or better

This course introduces the basics of health assessment and aids the student in employing the components of a health history with those of the physical exam to develop an individualized plan of care. The student learns the components of a holistic health history and a complete physical exam to include application across the lifespan. The nursing process, nursing diagnoses, and cultural sensitivity will be included.

NURA 3310-3 Essentials of Nursing Practice (3 + 0)

Prerequisite: Admission to the Accelerated Nursing Program

Corequisite:

This course introduces the student to the profession of nursing and the culture of health care. Fundamental values, theoretical foundations and the rich history of nursing will be explored. Students will begin to develop an understanding of human responses to health and illness. Students will being to apply the nursing process, nursing diagnoses, and critical thinking in developing a plan of care, with an emphasis on communication. This course fosters an understand of the role of informatics in nursing and health care.

NURA 3410-4 Clinical Pharmacology (3 + 2)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum Prerequisite:

sequence earning a "C" or better

Clinical pharmacology covers the major principles of pharmacology, drug classifications and their use in health and the prevention and/or treatment of major disease states, as well as the application of the nursing process incorporating pharmacology. Laboratory sessions provide the opportunity to practice hands-on application of dosage calculation and drug administration and to demonstrate competency necessary to safely administer medications for patients in the clinical setting. Critical thinking and communication processes will be integrated into the learning of basic skills.

NURA 3610-3 Accelerated Pathophysiology (3 + 0)

Prerequisite:

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

This course is designed to familiarize the beginning nursing student with the effect of diseases on body systems. Pertinent biochemical and metabolic processes are correlated with their effects on the cellular structure of the body. Interrelatedness of body systems and response to disease will be explored. Demographics, health disparities, etiology, pathogenesis, and signs and symptoms will be identified as related to various disease processes.

NURA 3710-5 Nursing Care of the Childbearing Family (3 + 6.4)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better Prerequisite:

This course focuses on the management and provision of nursing care for childbearing women and their families. Students examine the multiple bio-psycho-socio-cultural factors important in determining nursing interventions and in setting priorities. In the laboratory experience for the course, students learn procedures for implementation of a variety of skills needed for the care of the childbearing woman and newborn including specimen collection for diagnostic procedures. In the clinical setting, students apply skills and knowledge learned in the classroom and lab to direct nursing care that is provided during the childbearing process under the direct supervision of a registered nurse.

NURA 3810-6

Adult Nursing Care I (3 + 2 + 6.4)

Prerequisite:

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

This course focuses on the management of nursing care for adults and older adults experiencing alterations in health. The student is expected to examine the multiple bio-psychosocio-cultural factors important in prioritizing and determining nursing interventions. The nursing process, concept mapping and current research findings are used to organize care in advance of providing care to the patient throughout the care process. This course integrates classroom, clinical and lab components. Students practice and apply skills and knowledge learmed in the classroom and lab to direct nursing care.

NURA 3910-5 Prerequisite:

Child Family Health Nursing (3 + 6.4)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

This course incorporates theoretical and clinical experiences. The course will provide knowledge of both the art and science of effective and appropriate care for children and their families. Focus will be on health promotion, pathophysiology common to children, appropriate health teaching and knowledge of how all of the above are utilized in an age appropriate manner. The clinical portion of this class will emphasize the application of the nursing process to appropriate planning and delivery of nursing care for patients with various disease processes and developmental stages.

NURA 4010-5

Community Health Nursing (3 + 6.4)

Prerequisite:

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

The student incorporates and synthesizes public and community health knowledge, principles of ethics, law, politics, epidemiology, ecology and risk level in addressing diverse aggregate health needs and global issues. Teaching-learning theories are the foundation for health promotion and disease prevention activities. Lifestyle practices will be emphasized. Within the community setting, the student under the supervision of a preceptor applies knowledge of public health science, human and nursing theories to make assessments of clients' level of wellness. The student facilitates clients' self-determination and resource identification in moving toward higher levels of wellness through processes of health promotion and disease prevention.

NURA 4110-6

Adult Nursing Care II (3 + 2 + 6.4)

Prerequisite:

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

Nursing care of the adult/older adult with selected complex disease processes will be explored using the nursing process. Individualization and prioritization of needs will be addressed. Current research and evidence-based practice will be incorporated into comprehensive teaching plans for both patients and families. Collaboration with other members of the health care team will be practiced.

NURA 4210-5 Prerequisite:

Psychiatric/Behavioral Health Nursing (3 + 6.4)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better
Ths course covers the application of foundational psychiatric nursing concepts and interven-

tions in the care of clients on the mental health/psychiatric illness continuum, This course includes the application of growth and development theory and nursing ethical principles to the care of mental health clients in inpatient and community settings. Under the supervision of experienced clinicians, students plan and provide safe, ethical principled basic care to selected patients on a psychiatric unit.

NURA 4310-3

Ethical Decision Making in Professional Nursing Practice (3+0)

Prerequisite:

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

This course prepares the student of professional nursing for ethical decision making in clinical practice. This course introduces the student to biomedical ethical theories and principles as well as ethical decision making models applied to professional nursing. Students apply critical thinking concepts to applicable codes of ethics, ethical theories, principles, and rules in discussing ethical dilemmas encountered in professional practice. Ethical decision making models are applied to clinical dilemmas encountered in patients at the beginning, middle and end of life. Personal, professional, cultural and spiritual values are examined in the context of ethical dilemmas and their resolution in healthcare.

NURA 4410-3 Nursing Research (3 + 0)

Prerequisite: Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum

sequence earning a "C" or better

This course introduces students to the research process and research utilization in evidencebased practice. Emphasis is placed on identifying researchable problems through literature

review and analysis as well as study design.

NURA 4710-3 Leadership and Manaagement in Nursing (3 + 0)

Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum sequence earning a "C" or better

This course is designed to assist the student in developing as a professional nurse by investi-Prerequisite:

gating leadership and management theories and principles. This course emphasizes leadership, management, organizational theories, policy, regulatory requirements, evidence-based practice, and business economics. Major emphasis is placed on accountability and commu-

nication.

Accelerated Nursing Senior Experience (2 + 9.6) NURA 4810-5

Prerequisite: Successful completion of NURA courses, labs, and clinicals in accordance with the curriculum

sequence earning a "C" or better

This capstone course operationalizes concepts, theories, and processes synthesized in the program to prepare the student to make the transition from nursing student to professional nurse. The student works with a preceptor to achieve approved behavioral objectives in a designated clinical setting. (Senior Experience)

NUTRITION

NUT 2040-3 Introduction to Nutrition (3 + 0)

satisfaction of the General Studies Level I Mathematics course requirement, ENG 1020, and Prerequisites:

high school chemistry or permission of instructor

This course is designed to provide the student with an understanding of the fundamental concepts of human nutrition, including digestion, absorption, metabolism, and function of nutrients as they relate to human health and disease. (General Studies—Level II, Natural Sci-

ence) (GT-SC2)

NUT 3080-3 Maternal and Child Nutrition (3 + 0)

Prerequisite: **NUT 2040**

This course is designed to increase the student's knowledge about the physiological, psychological, sociological and cultural factors which influence nutritional needs and eating habits of the growing family. Nutrient requirements, dietary planning guidelines and techniques for assessing nutritional status will be presented for the following developmental levels: the pregnant and lactating woman, the infant, the preschool and school-age child, and the adolescent.

NUT 3100-3 Nutrition and Aging (3 + 0)

NUT 2040 Prerequisite:

This course is designed to provide students with knowledge about the physiological, psychological and socioeconomic changes which accompany aging and their impact on the dietary practices and nutritional status of the aging population. Nutrition education relevant to this population is emphasized, including identification of community resources available to support older citizens in augmenting their food choices and increasing access to nutritional ser-

NUT 3200-3 Nutrition and Sports Performance (3 + 0)

NUT 2040 Prerequisite:

This course is designed to enable the student, through application of the basic principles of nutrition, to improve his/her health, fitness, and physical performance within the limits set

by genetic endowment and level of training.

NUT 3210-3 Community Nutrition (3 + 0)

Prerequisite:

This course is designed to increase student's knowledge in the area of the nutritional status of the individual and family in the community. Nutrition services and programs available in the community will be discussed as well as socioeconomic facts, government programs, and legislation's influence upon health.

NUT 3300-3 Cultural Aspects of Nutrition (3 + 0)

Prerequisites: NUT 204

This course is designed to increase the student's knowledge about the role of food in culture, religion, and health. The differences between cultures and the significance of those differences is emphasized. This course analyzes the nutritional adequacy and health benefits of diets of different cultures.

NUT 3400-3 Nutrition and Weight Management (3 + 0)

Prerequisites:

This course is a study of the basic principles of, and latest trends in, weight management. This course includes coverage of assessment techniques, behavioral and non-behavioral treatment approaches and prevention strategies. The concept of "health at every (body) size" will be presented. Fad diets and programs with sound nutrition principles will be analyzed.

NUT 3600-3 Eating Disorders I (3 + 0) Prerequisites: NUT 2040 and NUT 3400

This course is an introduction to advanced study of obesity and eating disorders. This course presents the major classifications of obesity and the accompanying physical and physiological consequences, as well as a mind-body approach to treatment with emphasis on health at every body size. The history, risk factors, prevalence, dynamics and treatment modalities to disordered eating will be examined. The student will assess the role of the media in disordered eating and dieting, as well as evaluate scientific literature in eating disorders and weight issues.

NUT 3640-3 Healthy Cooking Techniques (2 + 2) (HTE 3643)

Prerequisite: NUT 2040 or permission of instructor

This course is designed to illustrate the elements of food flavors through the exploration of the nutritional values of fruits, grains, legumes, meats, and vegetables. The principles of healthy cooking and nutrition will be employed and applied to food types to include the demonstration of cooking with less fat and less salt. Students will develop, illustrate, and analyze healthy cooking techniques, recipes, and menus to include nutritional content. This course will conclude with the preparation and service of nutritious meals to the public. Credit will be granted for only one prefix: NUT or HMT.

NUT 4600-3 Eating Disorders II (3 + 0)

Prerequisites:

NUT 3600

This course is the second course focused on the study of obesity and eating disorders. This course presents an analysis of the physiological and medical aspects of anorexia nervosa, bulimia nervosa, and eating disorders not otherwise specified, focusing on predisposition, differential diagnosis, exercise, purging, starvation, and binge eating. Treatment modalities will be examined, including medical, nursing, dental, nutritional, psychological, and other forms of therapy.

PARENT EDUCATION

PAR 2050-3 Introduction to Parent Education (3 + 0)

This course is designed to introduce the student to the field of parent education, its history, scope, methods and issues are raised. The aim of the course is to provide a broad overview of the field, either as a basis for further course work in parent education or as a brief introduction to an area of growing interest.

PAR 3070-3 Working with the Contemporary Family (3 + 0)

Prerequisite: junior or senior standing

This course is designed to familiarize students with the contemporary family: its structures, stresses, strengths and the legal and political issues that impact it are emphasized. Students will learn how parent educators can assist today's family and will be given the opportunity to apply course learnings to a specific family situation.

PAR 4890-3 Parent Education Field Placement (0 + 9)

Prerequisites: PAR 20

PAR 2050 and PAR 3070

The field placement is individually designed to meet the needs of the student. It provides opportunities to plan, implement, and evaluate programs and projects in a parent education setting. The program director works closely with students and community agencies in setting up each field placement.

PHILOSOPHY

PHI 1010-3 Introduction to Philosophy (3 + 0) (HON 1011)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

This course constitutes a survey of the major areas of philosophical inquiry: the enduring questions and alternative answers that continue to be relevant to contemporary living. Problems covered include (1) free will vs. determinism, (2) mind and body, (3) God and religion, (4) knowledge, (5) ethics, and (6) society and politics. Credit will be granted for only one

prefix: PHI or HON. (General Studies—Level II, Arts and Letters)(GT-AH3)

PHI 1030-3 Ethics (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

This course provides a survey of alternative ethical viewpoints with a focus on the principles of moral action. The implications of these ethical positions for moral living will be emphasized through discussion of selected contemporary moral issues. Critical thinking about issues of right conduct will be developed. (General Studies—Level II, Arts and Letters)(GT-AH)

PHI 1040-3 Introduction to Eastern Religions (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

An introductory survey of the major religious communities of the East, with primary emphasis on the historical evolution and living traditions of Hinduism, Buddhism, and Taoism.

PHI 1050-3 Introduction to Western Religions (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

An introductory survey of the major religious communities of the West (originating in the Near East), with primary emphasis on the historical evolution and living traditions of Juda-

ism, Christianity, and Islam.

PHI 1110-3 Language, Logic and Persuasion (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement tests

An informal logic course providing a nontechnical introduction to critical thinking including the functions of language, the nature of arguments, common fallacies committed in communication, and the art of constructing clear and adequate definitions. (General Studies—Level

I, Communications) (GT—AH3)

PHI 2040-3 Philosophy of Religion (3 + 0)

Prerequisite: PHI 1040 or PHI 1050 recommended

This is a course on the philosophical dimensions of religious faith and practice, the nature

and scope of religious experience, and the existence and source of divinity.

PHI 2440-3 Symbolic Logic (3 + 0)

This course is a general introduction to formal or symbolic logic. Topics covered include all aspects of sentential or propositional logic, beginning with the rules for determining the validity of deductive arguments and continuing through to the symbolization and syntax of

the first- order predicate calculus.

PHI 3000-3 History of Ancient Philosophy (3 + 0)

Prerequisites: satisfaction of all Level I General Studies course requirements

This course is a survey of the history of ancient philosophy, focusing on the Greeks. The life and work of Socrates, Plato and Aristotle receive special attention. (General Studies—Level

II, Arts and Letters)

PHI 3020-3 History of Modern Philosophy (3 + 0)

Prerequisites: satisfaction of all Level I General Studies course requirements

This course is a survey of the history of modern philosophy, from the Renaissance to Romanticism. The work of Descartes, Hume and Kant receive special attention. (General Studies—

Level II, Arts and Letters)

PHI 3120-3 Philosophy of Language (3 + 0)

Prerequisites: PHI 2440 is recommended

This course is a general introduction to central questions and topics in the philosophy of language. Special consideration is given to historical and contemporary issues in the ana-

lytic tradition.

PHI 3150-3 Social and Political Philosophy (3 + 0)

Prerequisite: PHI 3000 or PHI 3020

This is a course on selected topics in social and political philosophy, typically involving issues related to justice, rights, power, democracy, class, equality, freedom, property, representation,

and community. Readings may include classical and contemporary sources.

PHI 3180-3 Feminist Philosophy (3 + 0) (WMS 3180)

Prerequisites: PHI 1010 or 1030 and junior standing are recommended.

This course involves an examination of traditional philosophical topics and questions from the perspective of contemporary feminist theory. Special consideration is given to feminist critiques of logic, rationality and scientific objectivity and to feminist approaches to ethical, social and political thought. Credit will be granted for only one prefix: PHI or WMS.

PHI 3220-3 Personal Knowledge and Professional Growth (3 + 0)

upper-division standing or PHI 1010 Prerequisite:

A holistic course emphasizing the different dimensions of the self: physical, cognitive, emotional, ethical and spiritual. The course will examine different theories of the self and selfgrowth, and will work on integrating theory and practice of each approach in both one's per-

sonal and professional life.

Metaphysics (3 + 0) PHI 3320-3 Prerequisite: PHI 3000 or PHI 3020

This course is a comprehensive survey of traditional or contemporary problems in metaphysics. Topics typically covered include free will, causation, identity, God, and substance.

PHI 3330-3 Epistemology (3 + 0)

PHI 2440 Prerequisites:

This course provides a survey of key topics in the theory of knowledge such as skepticism, propsitions, justification, perception, memory, induction, other minds, and naturalism.

PHI 3350-3 Ethical Theories (3 + 0)

Prerequisite:

This is a course on selected topics in ethical theory, including those derived from normative ethics, concerning the content of moral behavior, or those derived from meta-ethics, concerning the nature of ethical reflection. Readings may include both classical and contemporary sources.

PHI 3360-3 Business Ethics (3 + 0)

at least junior standing or permission of instructor and satisfaction of Level I General Studies Prerequisites:

course requirements

This course examines the values and value conflicts inherent in the modern practices of the business world, investigates the major philosophical issues that challenge the conduct of ethics as a rational enterprise, exposes students to major traditions in philosophical normative ethics and applies those traditions to specific value conflicts in the business world. A critical thinking component is included in the course. (General Studies—Level II, Arts and Letters)

PHI 3370-3 Computers, Ethics, and Society (3 + 0)

Prerequisites: satisfaction of Level I General Studies course requirements and one of the following: any PHI

course or any CS course or equivalent

This course investigates the values and value conflicts inherent in the modern practices of the business world, giving special attention to the problems and possibilities associated with computers and computing technologies. Designed to assist students in becoming effective computing professionals, it examines in detail questions concerning professional and ethical responsibilities, privacy and civil liberties, intellectual property, the risks and liabilities of computer-based systems, and the social context of computing, among others. (General Studies—Level II, Arts and Letters)

PHI 3390-3 Aesthetics (3 + 0)

Prerequisites: two courses in philosophy or permission of instructor

A study of some basic concepts of aesthetics, focused either on a principal figure in the field (e.g. Plato, Kant, Schiller, or Nietzsche) or on a particular set of fundamental issues in aesthetics, e.g. the ontology of the work of art; intentions and originality; form and expression; criticism, aesthetic education, etc. May include an emphasis on a particular art (e.g. poetry, drama, film, jazz, or painting).

PHI 3400-3 Philosophy of Science (3 + 0)

Prerequisites: PHI 1010 and three additional hours in philosophy or permission of the instructor

An advanced, critical examination of the concepts and problems involved in contemporary science. The nature of scientific method, explanation and law is covered. Physical, biological

and psychosocial sciences are investigated.

PHI 3410-3 Eastern Philosophy: Variable Topics (3 + 0)

Prerequisite: PHI 1040 or permission of the instructor

This course offers variable titles and will concentrate on in-depth study of particular ancient and modern schools and movements in Eastern philosophy such as: the philosophies of the Vedas and the Upanishads; Nyaya, Samkhya, Yoga, Vedanta; Charvak; Tantra; Jaina; Buddhist philosophies including Lamaism; the Chinese philosophies—Confucianism, Taoism, Maoism; and Japanese philosophies—Shinto and Zen. This course may be repeated for credit

under different topics.

PHI 3430-3 Philosophy of Law (3 + 0)

Prerequisite: one upper-division course in the humanities or social sciences, or one philosophy course; or

permission of instructor

An examination of the origin of the individual and the idea of law in Greek thought and alterations of these notions in modern thought. The notion of interpretation in the law will

be examined.

PHI 3510-3 Phenomenology (3 + 0)

Prerequisite: PHI 3020 is recommended.

This course is a study of at least two major twentieth century phenomenologists. Different

conceptions of the nature and scope of phenomenology are critically examined.

PHI 3530-3 Philosophy of Mind (3 + 0)

Prerequisites: PHI 2440

This course is a study of mental phenomena, including traditional problems connected with the relation of mind and body, personal identity, solipsism and the knowledge of other minds, but also contemporary issues involving consciousness, perception, thought, feeling and voli-

tion in human, animal, and artifical contexts.

PHI 3550-3 Existentialism (3+0)

Prerequisites: PHI 1010 and three additional hours in philosophy or permission of instructor

The study of the existentialist movement of the nineteenth and twentieth centuries. Philosophers and writers include Kierkegaard, Nietzsche, Heidegger, Dostoevsky, Merleau-Ponty and Sartre. Problems covered include: the nature of Being; freedom and responsibility; the other and the body; the moral life; applications of existentialism to political life; and psychothera-

peutic theory.

PHI 3610-3 Religious Studies: Variable Topics (3 + 0)

Prerequisites: PHI 1010 and PHI 1050 or permission of instructor

A variable title course designed to provide for an in-depth study of specific religious leaders and thinkers, such as Jesus, Paul, Augustine, Muhammad, Aquinas, Maimonides, Luther, Calvin, Tillich, Barth, Bonhoeffer and Buber. This course may be repeated for credit under

different topics.

PHI 3810-3 Major Philosophers: Variable Topics (3 + 0)

Prerequisites: PHÍ 3000 or PHI 3020

This course is an in-depth study of a specific philosopher, such as Aristotle, Aquinas, Descartes, Kant, Nietzsche, or Heidegger; or a group of related thinkers, such as Plato or Plotinus, Marx and the Young Hegalians, or Wittgenstein and Austin; or a movement of thought, such as German Idealism, American Pragmatism, or Logical Positivism. This course may be repeated for credit under

different topics.

PHI 3910-3 Women's Spirituality (3 + 0) (WMS 3910)

Prerequisites: WMS 1001 or PHI 1010

This course will explore the philosophical basis for and nature of women's spirituality. Political, social, and cultural aspects of the women's spirituality movement will be analyzed both within and beyond traditional institutionalized religion; facets of women's individual spiritual growth and development express themselves in a variety of ways, and this course seeks to examine emotional, cognitive, somatic, and physical aspects. Students will also have opportunities to participate in the art, music, and rituals associated with various traditions and to create projects that will illuminate their personal experiences. Credit will be granted for only

one prefix: PHI or WMS.

PHI 4100-3

Senior Seminar (3 + 0)

Prerequisites:

satisfaction of all Level I & Level II General Studies course requirements and senior standing This course is a capstone course and is required of all philosophy majors. It is an in-depth consideration of a topic or author (or group of topics or authors) involving synoptic reflection, detailed interpretation and thematic synthesis, with in- class presentations and an emphasis on philosophical writing. (Senior Experience)

PHYSICS

PHY 1000-4

Introduction to Physics (3 + 2)

Prerequisites:

minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests and high school algebra or equivalent

An introductory survey course for nonscientists that emphasizes the main concepts of physics, including mechanics, properties of matter, heat, sound, electricity, and magnetism, light, modern physics and relativity. The accompanying laboratory work is designed to illustrate the material discussed in the lectures. (General Studies—Level II, Natural Science)

PHY 1250-6

Physics of Aviation (5 + 2)

Prerequisite:

MTH 1110, or MTH 1310, or equivalent; minimum performance standard scores on the reading, writing and mathematics preassessment placement tests

A one-semester course introducing the fundamentals of physics through technological applications, many of which are in aerospace science. Topics include measurement, motion, temperature, heat, properties of fluids, sound, oscillations, waves, and electricity and magnetism. (General Studies—Level II, Natural Science)

PHY 2010-4 Prerequisites:

College Physics I (4+0)

concurrent registration with PHY 2030 is recommended. MTH 1120 or equivalent; and satisfaction of either ENG 1010 or the Level I Communication requirement; completion of PHY 2010 and PHY 2030 with a passing grade is required to receive General Studies credit

This first term of a one-year sequence covers the fundamentals of physics in a basic but thorough manner. The experimental aspects of physics are emphasized in the classroom and in the laboratory. Considerable time is devoted to problem-solving. Course content includes measurement, vectors, kinematics, dynamics, gravitation, energy, momentum, rotational motion, properties of matter, heat, thermal properties of matter, thermodynamics, wave motion and sound. The course is algebra-based. (Ĝeneral Studies—Level II, Natural Science) (GT-SC1)

PHY 2020-4

College Physics II (4+0)

concurrent registration with PHY 2040 is recommended; PHY 2010 and satisfaction of either Prerequisites: ENG 1010 or the Level I Communication requirement; completion of PHY 2020 and PHY

2040 with a passing grade is required to receive General Studies credit A continuation of PHY 2010, the algebra-based introductory physics course. Topics include electricity and magnetism, electromechanical devices, AC circuits, geometrical and physical optics and modern physics. (General Studies—Level II, Natural Science)(GT-SC1)

PHY 2030-1

College Physics I Laboratory (0 + 2)

Prerequisites:

concurrent registration with PHY 2010 is recommended; MTH 1120 or equivalent; and satisfaction of either ENG 1010 or the Level I Communication requirement; completion of PHY 2010 and PHY 2030 with a passing grade is required to receive General Studies credit The first semester of a one-year sequence in laboratory work that emphasizes experimen-

tal techniques, procedures and formal report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on mechanics. (General Studies—Level II, Natural Science)

PHY 2040-1

College Physics II Laboratory (0 + 2)

Prerequisites:

concurrent registration with PHY 2020 is recommended and satisfaction of either ENG 1010 or the Level I Communication requirement; completion of PHY 2020 and PHY 2040 with a passing grade is required to receive General Studies credit This course is the second semester of a one-year sequence in laboratory work that emphasizes

experimental techniques, procedures and formal report writing. Laboratory experiments are selected to reinforce or extend the work of the lecture portion of the course. Emphasis is on electrical measurements, waves, optics and modern physics. (General Studies-Level II, Natural Science)

PHY 2311-4 General Physics I (4+0)

Prerequisites: MTH 1410 and satisfaction of either ENG 1010 or the Level I Communications requirement.

Completion of PHY 2311 and PHY 2321 with a grade of "C" or better is required to receive General Studies credit. Concurrent registration with PHY 2321 is recommended.

This first term of a one-year introductory calculus-based physics course is suitable for science and engineering students. Topics treated include mechanics, heat and thermodynamics, electricity and magnetism, and light. (General Studies—Level II, Natural Science) (GT-SC1)

PHY 2321-1 General Physics I Laboratory (0 + 2)

concurrent registration with PHY 2311 is recommended. Satisfaction of either ENG 1010 or Prerequisites:

the Level I Communication course requirement; completion of PHY 2311 and PHY 2321 with

passing grades is required to receive General Studies credit

This first semester of a one-year sequence in laboratory work emphasizes experimental techniques, procedures and formal report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on mechanics. (General Studies-

Level II, Natural Science)

PHY 2331-4 General Physics II (4+0)

MTH 2410, PHY 2311 and PHY 2321 or equivalent and satisfaction of either ENG 1010 or the Prerequisites:

Level I Communication course requirement; completion of PHY 2331 and PHY 2341 with a grade of "C" or better is required to receive General Studies credit. Concurrent registration with PHY 2341 is recommended.

As a continuation of PHY 2311, this second term of a one-year introductory calculus-based physics course is suitable for science and engineering students. Topics treated include electricity and magnetism, circuits, electromagnetic oscillations and waves, physical optics, and

geometrical optics. (General Studies—Level II, Natural Science)(GT-SC1)

PHY 2341-1 General Physics II Laboratory (0 + 2)

concurrent registration with PHY 2331 is recommended. MTH 1410, PHY 2311 and PHY Prerequisite:

2321 or equivalent and satisfaction of either ENG 1010 or the Level I communication course requirement; completion of PHY 2331 and 2341 with passing grades is required to receive

General Studies credit

This second semester of a one-year sequence in laboratory work emphasizes experimental techniques, procedures and report writing. Laboratory experiments reinforce or extend the work of the lecture portion of the course. Emphasis is on electrical measurements, waves,

optics and modern physics. (General Studies—Level II, Natural Science)

PHY 2711-3 Vibrations and Waves (3 + 0)

PHY 2331, MTH 2410 Prerequisites:

This course is an introduction to vibrations and waves associated with physical phenomena. Analytical and numerical methods will be introduced for analysis. The topics covered are

harmonic oscillators, waves in elastic media, sound waves, pulses, and dispersion.

Modern Physics I (4+0) PHY 2811-4 Prerequisites: MTH 2410 and PHY 2331

Corequisite:

This is the first course of a two-course sequence which provides an introduction to modern physics. Topics include vibrations and waves, the special theory of relativity, the breakdown

of classical physics, and an introduction to quantum mechanics.

PHY 2821-3 Classical Physics (3 + 0)

MTH 2410 and one year of physics, or permission of instructor Prerequisites:

Fundamental principles of mechanics, thermodynamics, electromagnetism and optics with

an emphasis on understanding of physics through problem-solving.

PHY 3011-3 Modern Physics II (3 + 0)

Prerequisite: PHY 2811

This is the second half of a two-course sequence which provides an introduction to modern physics. The concepts and formalism of quantum physics are used to allow for an understanding of the energy levels and configuration of the hydrogen atom, the strength of molecular bonds, atomic and molecular spectroscopy, solid state physics, band theory, nuclear and subatomic physics. An introduction to quantum statistics, general relativity and cosmology is

also given.

PHY 3082-3 Energy and Environment (3 + 0)

PHY 1000 or PHY 2010 or equivalent Prerequisite:

A course in the supply and usage of energy resources and the environmental problems associ-

ated with our energy usage.

Methods of Mathematical Physics (3 + 0) PHY 3120-3

Prerequisite: MTH 3420 and MTH 2420

This course introduces mathematical techniques useful for solving equations commonly found in physics. Topics include methods of solving partial differential equations, special

functions, and integral transforms.

Analytical Mechanics (4 + 0) PHY 3211-4

Prerequisites: PHY 2711 and MTH 3420, or permission of instructor

This is a course in mechanics at the intermediate level. Topics include the Lagrange and Hamilton formulations, the two-body problem, rigid body motion, and small oscillations.

PHY 3411-3 Thermal Physics (3 + 0)

MTH 3420, PHY 2711, or permission of instructor Prerequisite:

This course covers the basic concepts of the three related disciplines of thermodynamics, statistical mechanics, and kinetic theory. The treatment includes both microscopic and macroscopic behavior of various classical and quantum systems of noninteracting particles and spins.

PHY 3620-3 Sound and Music (3 + 0)

Prerequisite: satisfaction of Level I General Studies course requirements

This course will consider the basic nature of sound waves, the ear and hearing, musical instruments and acoustics. Although this course is mainly descriptive, some high school

algebra will be used. (General Studies—Level II, Natural Science)

Physics Laboratory I (0 + 4) PHY 3711-2

Prerequisite: PHY 2811

This is the first term of a one-year sequence in laboratory work at the junior level. Topics include electrical measurements, electrical measuring systems and experimental optics.

PHY 3721-2 Physics Laboratory II (0+4)

PHY 2811 Prerequisite:

This is a continuation of PHY 3711.

PHY 3811-3 Quantum Mechanics (3+0)

MTH 3420, PHY 2811, PHY 2711 or permission of instructor Prerequisites:

This is a course in which both wave mechanics and matrix mechanics are developed and applied to selected problems in atomic physics. Particular topics include solutions to the time-independent Schrödinger equation for the hydrogen atom, tunneling, the harmonic

oscillator, electron spin and approximation methods.

PHY 4331-4

Electricity and Magnetism (4 + 0) MTH 3420 and PHY 2711, or permission of instructor Prerequisites:

This is a course in electricity and magnetism at the intermediate level. Topics include Maxwell's equations, boundary value problems, electrodynamics, and electromagnetic radiation.

PHY 4510-3 Optics (3+0)

Prerequisite: PHY 2711 or equivalent

A course that presents a contemporary treatment of selected topics in optics, such as matrix methods in geometrical optics, the Fourier analysis approach to physical optics and the inter-

action of light with matter.

PHY 4550-3 Astrophysics (3+0)

Prerequisites: PHY 2711, MTH 3420

This course covers stellar astrophysics, solar physics, star formation, stellar evolution, processes in the interstellar medium, galactic dynamics and evolution, formation of galaxies and

cosmology.

PHY 4611-2 Computational Physics I (0 + 4)

PHY 2811, PHY 2711, MTH 3420, satisfaction of all Level I and Level II General Studies Prerequisites:

requirements and senior standing or permission of instructor.

This course introduces more advanced methods of computational physics. Several complex physical phenomena are modeled numerically. Topics include non-linear second order differential equations associated with Newton's second law, partial differential equations associated with the wave equation, heat diffusion, Schrödinger's equation, and methods of fitting and

analyzing data. (Senior Experience)

PHY 4620-2 Computational Physics II (0 + 4)

PHY 4611 and satisfaction of all Level I and Level II General Studies course requirements and Prerequisites:

senior standing

This is a course that assigns the student to an individual advanced, advanced level project

modeling a physical phenomenon on the computer. (Senior Experience)

PHY 4630-3 Continuum Physics (3 + 0)PHY 3120 or equivalent Prerequisite:

A course that presents the basic physical principles of fluid mechanics and elasticity together

with their application to various problems in astronomy, physics, geology and medicine.

PHY 4650-3 Solid State Physics (3 + 0)

PHY 3411 and PHY 3811 or permission of instructor Prerequisites:

A course in which the basic thermal and electrical properties of solids are explained in terms

of the Brilluoin zone structures of phonons and electrons.

PHY 4711-2 Advanced Physics I Laboratory (0 + 4)

Prerequisite: PHY 3711, satisfaction of all Level I and Level II General Studies course requirements, senior

standing, or permission of instructor

This course provides laboratory work at the advanced undergraduate level. Individual stu-

dent projects are emphasized. (Senior Experience)

PHY 4721-2 Advanced Physics II Laboratory (0 + 4)

PHY 3711; satisfaction of all Level I and Level II General Studies course requirements and Prerequisites:

senior standing

This course focuses on individual student projects in experimental physics at the advanced

undergraduate level. (Senior Experience)

PHY 4810-3 Atomic and Molecular Structure (3 + 0)

Prerequisite: PHY 3811

A course in which quantum mechanical methods are applied to problems in atomic and molecu-

lar physics, such as the one-electron atom, atomic and molecular spectra and particle scattering.

PHY 4820-3 Subatomic Physics (3 + 0)

PHY 4810 Prerequisite:

An introductory treatment of the various concepts and models used to describe nuclear and

high energy particle phenomena.

PHY 4921-1 Physics Senior Seminar (1 + 0)

Prerequisites: PHY 4711 or permission of instructor; satisfaction of all Level I and Level II General Studies

course requirements and senior standing PHY 4620 or PHY 4721 or permission of instructor Corequisite:

This is a course in which graduating seniors report on individual projects to their peers and

the department faculty. (Senior Experience)

POLITICAL SCIENCE

PSC 1010-3 American National Government (3 + 0)

minimum performance standard scores on the reading and writing preassessment placement tests Prerequisite:

This course explores the American political process with emphasis on the federal government: how it is organized, formal and informal sources of power and influence, political attitudes and behavior of American citizens, civil rights, constitutional evolution, factors of change and stability. (General Studies—Level II, Social Sciences)(GT-SS1)

PSC 1020-3 Political Systems and Ideas (3 + 0)

minimum performance standard scores on the reading and writing preassessment placement tests Prerequisite:

The course provides ways of looking at political society, the often unsettling realities of politics, and political science as a discipline; searches for the means of understanding, acting, and living in an increasingly complex and interdependent world of decision making and problem solving; and emphasizes the basic ideas, structures and issues of modern political systems.

(General Studies—Level II, Social Sciences)(GT-SS1)

PSC 2020-3 Conducting Political Analysis (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

This course inquires into research methods and deals with how we organize knowledge in the study of politics. It also emphasizes a multidisciplinary approach to political analysis by con-

centrating on philosophy of science, social science methodology and historiography.

PSC 2030-3 Politics in the Media (3 + 0)

This course is an analysis of political issues as portrayed in print, broadcast, and electronic media. It is designed to provide students with the background and perspective needed for an informed understanding of issues confronting the political system.

Politics and Black People (3 + 0) (AAS 2200) PSC 2200-3

satisfaction of Level I Mathematics requirement, and either ENG 1010 or the Level I Com-Prerequisites:

munication course requirement

Black politics is examined as a vehicle and potential in decision making for positive change for black people in this country. The realities and the challenges, both historical and current, are emphasized. Credit will be granted for only one prefix: PSC or AAS. (General Studies-

Level II, Social Sciences; Multicultural)

PSC 3000-3 American State and Local Government (3 + 0)

Prerequisite: PSC 1010 or permission of instructor

The organization, powers, functions, and practical workings of state, county, town and city governments of the United States. Special attention is given to federal-state relations and to the Colorado state government and constitution.

PSC 3020-3 Introduction to Public Administration (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

An introduction to public management as a field of study and professional practice. Topics include the political environment of public administration, organization theory, decisionmaking, budgetary processes, intergovernmental relations, and ethics and professionalism in public service.

PSC 3030-3 Introduction to International Relations (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

Examination of the modern nation-state in its relations with others: diplomacy, nationalism, power and influence, sources of conflict and cooperation. Reviews theoretical attempts to understand international behavior.

Political Theory (3 + 0) PSC 3050-3

satisfaction of Level I General Studies course requirements Prerequisite:

Examination of Western political ideas and ideals from Plato through Marx: the hopes and fears, questions and responses, dreams and realities about the state, humanity, justice and politics. An opportunity to relate historical political thinking to modern problems. (General Studies—Level II, Arts and Letters)

Current Topics in Political Science: Variable Topics (3+0)PSC 3090-3

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

An in-depth study of an important topic of political science. Topics vary and the course may be repeated for credit as the topics change.

PSC 3100-3 American Political Parties and Elections and Voting Behavior (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

The nature and functions of parties in the U.S. political system: their membership, beliefs and internal organization. Examines campaign methods and financing, and analyzes the American voter and non-voter, based on the latest research findings.

American Constitutional Law (3 + 0) PSC 3120-3

PSC 1010 and satisfaction of Level I General Studies requirement Prerequisites:

This course examines how the basic principles and doctrines of the Constitution have been interpreted, altered and applied in response to the ever-changing social, economic and political conditions in the United States. (General Studies—Level II, Social Science)

PSC 3130-3 The American Presidency (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

The powers and functions of the presidency as the office has changed and evolved, with emphasis on recent experience. Explores styles of presidential leadership, relations with Congress, the bureaucracy, the media, the group influence and constituent relations. Examines internal organization, traditions, power structure and reform.

PSC 3140-3 The American Congress and Legislative Process (3 + 0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

The powers and functions of the legislative branch of government; relations with the executive branch; interest group influence; constituent relations. Examines internal organization, traditions, power structure and reform.

Readings in Political Science and Public Administration: Variable Topics (1-3 + 0) PSC 3160-1-3

This course provides the opportunity for the student to explore important writings in a selected subject area of political science. A self-paced course under the guidance of the instructor. Topics vary and the course may be repeated for credit.

PSC 3170-3 Leadership Studies (3 + 0)

Prerequisite: Completion of Level I General Studies requirements

This class focuses on the modern development of leadership studies, from the cornerstone study by James MacGregor Burns in 1978 to the present. The course highlights the debates surrounding the search for a general theory of leadership, the role of values in the study of leadership and the value of leadership itself. A variety of perspectives are presented on the topics covered.

PSC 3200-3 Native American Politics (3 + 0) (NAS 3200)

NAS 1000 or PSC 1020 or permission of instructor, and completion of all Level I General Prerequisites:

Studies course requirements

The focus of this course is to examine Native Americans as political beings. Important questions and strategies for understanding the rise and expansion of Native politicization will be identified. In general, the students will be able to explain why, how and when movements that demand change emerge. By comparing and contrasting the Native American experience with other powerless groups in society, the students should be able to trace these historical and political factors that led to a change in the movement of insurgency and analyze the specific actions by insurgents that inevitably resulted in the failure or success of those specific actions. Credit will be granted for only one prefix: PSC or PSC. (General Studies—Level II,

Social Sciences; Multicultural)

PSC 3220-3 Public Policy (3+0)

PSC 1010 or PSC 1020 or permission of instructor Prerequisite:

An analysis of the ongoing development of government policy, covering the main stages of the policy process: agenda building, formulation, authorization, implementation and evaluation.

PSC 3230-3 **Environmental Politics (3 + 0)**

PSC 1010, PSC 1020 or permission of instructor Prerequisites:

The class will explore the political and administrative issues in the field of environmental politics. Environmental areas to be reviewed will include environmental theory, organiza-

tions, political behavior, assessment, law and decision-making.

PSC 3240-3 Intergovernmental Relations (3 + 0)

Prerequisite: PSC 1010 or permission of instructor

Analysis of the functioning of the American federal system and the changing forms of local/ state/federal relationships. Surveys recent efforts to develop theories relating to the adminis-

trative processes of intergovernmental relations.

PSC 3260-3 Politics of Budgeting (3 + 0)

Prerequisite: PSC 3020 or permission of instructor

Budget systems analyzed with an evaluation of administrative techniques of budget control. The legal, social and political aspects of governmental budgets and the budgetary process.

PSC 3280-3 Public Personnel Administration (3 + 0)

PSC 3020 or permission of instructor Prerequisite:

The analysis of managing, motivating and developing people in public organizations. Surveys the main elements of personnel administration such as selection, evaluation, promotion,

training, productivity and job classification.

PSC 3300-3 Land Use, Culture and Conflict (3 + 0) (GEG 3300, NAS 3300)

ENV 1400 or NAS 1000 or PSC 1010 and at least junior standing Prerequisites:

This course is designed to introduce students to theories, approaches and controversies concerning use of land and resources on Indian Reservations. Reading and discussion will be directed toward questions related to differing views on land use and resources, how modernization impacts traditional settings, as well as treaties and governmental policies that govern Indian land. Case studies which illustrate current conflict/resolution issues between Native Americans and other actors such as federal, state and local governments will be examined. Credit will be granted for only one prefix. (General Studies - Level II,

Social Science; Multicultural)

PSC 3310-3 American Foreign and Military Policy (3 + 0)

Prerequisite: PSC 1010 or permission of instructor

The main trends of U.S. foreign and military policy from the end of World War II to the present, with an exploration of the motives and perceptions behind recent policies and actions. Studies the policymaking process and the relationship between foreign policy and domestic policies.

PSC 3320-3 International Law (3 + 0)

Prerequisite: PSC 3030 or permission of instructor

Past and present efforts of nations to regulate their relations and resolve conflicts through the use of existing legal doctrine, or the development of new law in response to new problems, such as the uses of outer space and ocean resources.

PSC 3330-3 International Organizations (3 + 0)

Prerequisite: PSC 3030 or permission of instructor

The theory and practice of international organizations, with emphasis on the United Nations. Past and present attempts of nations to solve problems or achieve security by means of regional and global organizations, such as the Common Market and the World Bank.

PSC 3400-3 Contemporary Africa (3 + 0) (AAS 3400)

This course focuses on the political, social and economic realities of postindependence Africa. Africa's relations with the outside world and the question of South Africa are also examined in this course. Credit will be granted for only one prefix: PSC or AAS.

PSC 3520-3 American Political Thought (3 + 0)

Prerequisite: PSC 1010 or permission of instructor

Is there an American political philosophy? A study of some of the significant individuals and ideas that have shaped and are shaping political thinking in America.

PSC 3600-3 Comparative Politics Area Studies: Variable Topics (3 + 0)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

A thorough examination of the political system or systems of a selected foreign nation or geographical region, such as the Middle East, Western Europe, or Latin America. Subject matter varies and the course may be repeated for credit.

PSC 3630-3 Latin American Politics (3 + 0)

Prerequisites: PSC 1010 or 1020 and satisfaction of Level I General Studies requirement

This course will provide the student with the core concepts used within the social science literature in Latin American countries; will broaden intellectual horizons beyond United States borders to question ethnocentrism regarding what is means to be developed; and examine the causes, processes and outcomes of revolution and social conflict. (General Studies—Level II, Social Science)

PSC 3800-3 On Leaders and Leadership (3 + 0)

There are questions about leaders and leadership that have emerged in a variety of contexts throughout the human experience. This course examines those questions by focusing, first, on the general issues connected to leaders and leadership, and, then, by analyzing the role of leaders and the operation of leadership in the organized political world. Such a comparison highlights the similarities and the differences that exist between broad concepts of leadership and the actual practice and meaning of leadership in politics.

PSC 3910-3 African Politics and Government (3 + 0) (AAS 3910)

Prerequisites: AAS 1130, AAS 2300, or permission of instructor

This course will survey present-day political systems in Africa and examine factors, internal and external, that have contributed to their emergence. Credit will be granted for only one prefix: PSC or AAS.

PSC 4020-3 Special Studies (3 + 0)

Prerequisites: PSC 1010 and PSC 1020, and satisfaction of all Level I and II General Studies course require-

ments, and senior standing

This course is an in-depth examination of a selected subject within the overall field of political science. It provides students with an opportunity to delve into a subject that the instructor has a special interest or knowledge, but is not specifically covered in any of the existing courses. Course content will vary and may be variable depending on subject. The course may be repeated for credit as the subject matter changes. (Senior Experience)

PSC 4100-3-12 Legislative Internship (0 + 9-36)

permission of Political Science Department Prerequisite:

Students are placed in legislative (state or national) staff positions or in campaign offices according to their own interests and goals. The number of credits earned varies according to the amount of time on the job, e.g., a work load of 20 hours per week would earn six credits. Students must contact the Political Science Department before enrolling for internship.

PSC 4120-3-12 Government Agency Internship (0 + 9-36)

permission of Political Science Department Prerequisite:

Students are placed in government (state or national) agency internships according to their own interests and goals. The number of credits earned varies according to the amount of time on the job, e.g., a workload of 20 hours per week would earn six credits. Students must contact the Political Science Department before enrolling for internship.

PSYCHOLOGY

PSY 1001-3 Introductory Psychology (3 + 0) (HON 1001)

Prerequisite: minimum performance standard scores on the reading, writing, and mathematics preassessment placement tests

> This course presents basic concepts, principles, and methods involved in the scientific study and understanding of human behavior. Attention is given to organic bases of human and other animal behavior with emphasis on perception, learning, motivation, maturation, physical and social adaptation, experimental techniques, individuality and personality, conflict and stress, adjustment and mental health, social behavior, and developmental processes. Required course for all psychology majors and minors. (General Studies—Level II, Social Sciences) (GT-SS3)

PSY 1800-3 **Developmental Educational Psychology** (3 + 0) (This course is not approved for guaranteed

transfer to other Colorado colleges and universities)

Prerequisite: minimum performance standard scores on the reading, writing and mathematics preassess-

ment placement tests

Restrictions: Course restricted to teacher licensure students in early childhood and elementary education only. Students may not substitute PSY 2110 (Educational Psychology) for PSY 1800. Students may not receive credit for both PSY 1800 and PSY 2110.

The course focuses on how developmental and educational psychology can be used to better understand how to teach children. Emphasis is placed on milestones of child development (physical, social-emotional, cognitive and psycholinguistic) birth to adolescence, and the influence of the family, peers, and school on development during the preschool and elementary school years. Special emphasis is placed on cognitive development and learning and the specific cognitive requirements of formal instruction in schools. Students study the major psychological theories of learning and instruction. Research based approaches to effective teaching and how to set age and developmentally appropriate expectations for children are a primary focus. The role of assessment in the learning process and a number of assessment techniques are discussed from a psychological vantage point. Observations of children and of the learning/teaching process in classrooms are a required part of the class and provide experience in the application of course concepts. (General Studies—Level II, Social Sciences)

Educational Psychology (3 + 0) PSY 2110-3

PSY 1001 or permission of the instructor Prerequisite:

This course involves application and examination of various principles of psychology to learning and teaching. There is an examination of effective modes as they apply to classroom management and application of new communications as they may affect the classroom.

There is an emphasis on development, birth to adulthood.

PSY 2150-3 Cross-Cultural Psychology (3 + 0)

Prerequisites: PSY 1001, satisfaction of English 1020 and Level I Communication course requirement

This course will critically examine major concepts, theories, models and research in psychology across cultures. New directions and foci across cultures will be explored and applied to

personal development.

PSY 2160-3 Personality and Adjustment (3 + 0)

PSY 1001, satisfaction of the Level I Mathematics course requirement, and either ENG 1010 Prerequisites:

or the Level I Communication course requirement

The course presents application of principles of psychology to assist individuals in understanding factors that influence personality development and provides knowledge useful for personal improvements and adjustments as well as for social and professional relationships.

(General Studies—Level II, Social Sciences) (GT-SS3)

PSY 2210-3 Psychology of Human Development (3 + 0)

Prerequisites: PSY 1001, satisfaction of the Level I Mathematics course requirement, and either ENG 1010

or the Level I Communication requirement

This course presents the development of behavior from conception through maturity and death and is intended to help the student understand the developmental characteristics of different age groups and the determinants of their individual and collective behaviors. (Gen-

eral Studies—Level II, Social Sciences)

PSY 2240-3 Parenting Techniques (3 + 0)

Prerequisite: PSY 1001

This course is designed to provide students with practical information related to child rearing techniques. Students will gain an understanding of the role of parents, developmentally appropriate expectations, and how cultural variations influence parenting. Students will learn specific parenting techniques from a variety of approaches including how to implement them in the family. The emphasis is on research-based information.

Death and Dying (3 + 0) PSY 2270-3

Prerequisite:

This course will study how individuals cope with their own or others' death from infancy through aging. Emphasis will be placed on common causes of death, decisions concerning death, the stages in the death process, psychotherapy with the dying person and family members, and psychological interpretations of burial rituals. Cross-cultural practices in death and dying rituals will be emphasized.

PSY 2310-3 Introduction to Statistics for Social and Behavioral Sciences (3 + 0)

This course applies basic statistics to measurement, analysis, and interpretation in psychology as well as other social and behavioral sciences covering distributions, probability, central tendency, variability, sampling distributions, and hypothesis testing.

PSY 2320-3 Inferential Statistics (3 + 0)

Prerequisite:

PSY 2310 and permission of the Department of Psychology This course is a continuation of PSY 2310. It covers sampling, experimental design, hypothesis-testing, t distribution, analysis of variance, nonparametric statistics, and correlation and regression in the context of behavioral research.

PSY 2410-3 Social Psychology (3 + 0)

Prerequisite:

This course covers the major topics, theories, methods, and applications of social psychology. Topic areas include research methodology, person perception, attraction, helping behavior, aggression, attitudes, persuasion, group processes, and intergroup relations. Both classic and recent work are discussed.

PSY 2850-3 Psychology of Sexuality (3 + 0)

Prerequisite: PSY 1001 or permission of instructor

Restriction: Students must be age 18 or over in order to register for and take this course.

This course is a survey of human sexual functioning, with the emphasis on psychological components even though an overview of anatomy and physiology is included. A sampling of topics covered: sexual variation and deviation, sexual dysfunction, social-psychological views of liking and loving, sexual identity, legal aspects of sexuality, and erotica and pornography.

Contemporary Issues: Variable Topics (3 + 0)PSY 2950-3

Prerequisite:

Courses included under this umbrella deal with issues of personal importance to students, with an emphasis on applying psychological principles and knowledge to contemporary questions, rather than mastery of an academic content area in psychology. Course content will vary, and the course may be repeated twice with different topics for a maximum of nine hours.

PSY 3000-3 Theories of Personality (3 + 0)

Prerequisite:

PSY 1001

Students will learn the major contemporary theories of personality. The course will consider the following perspectives on human behavior and mental processes: psychodynamic, behavioral and cognitive behavioral, humanistic, trait and factorial, and neurobiological. The underlying assumptions and research support for these theories will be examined.

PSY 3050-3 Psychology of Gender (3 + 0) (WMS 3050)

PSY 1001 or WMS 1001 Prerequisite:

This course presents a survey of major contemporary approaches to gender, including a range of scientific and theoretical work. A constructionist approach is utilized to synthesize the views. The course then reviews several major areas of application, including relationships, health, violence, workplace, and achievements. Credit will be granted for only one prefix: PSY

PSY 3070-3 Psychology of Sexual Orientation (3 + 0) (WMS 3070)

PSY 1001 and six additional hours of PSY or permission of instructor Prerequisites:

This course explores psychological theory and research dealing with sexual orientation, with an emphasis on lesbian, gay and bisexual (LGB) identity. Topics include historical and theoretical frameworks, homophobia and heterosexism, origins of sexual orientation, LGB identity development and coming out, diversity, relationships and parenting, the role of commu-

nity, and others. Credit will be granted for only one prefix: PSY or WMS.

PSY 3100-3 Introduction to Clinical/Counseling Psychology (3 + 0)

Prerequisite:

This course is a survey of clinical and counseling psychology therapeutic procedures and techniques. An emphasis of the course is therapeutic modalities, assessment and diagnosis. There is a focus on ethical and multicultural issues related to the practice of psychology as well as legal and licensing issues in the practice of clinical/counseling psychology and related

practice fields.

PSY 3170-3 Multicultural Service Learning (2 + 2) (WMS 3170)

Prerequisites:

PSY 1001 and six additional semester hours in psychology
This course is designed to combine psychological theory and practice around multicultural issues (including not only traditional classifications based on race and ethnicity but also others such as age, gender, socioeconomic level, health status, and sexual orientation). Lectures, readings, and discussions are integrated with a required service learning placement involving 45 hours of volunteer work in a psychological setting with supervision and training as neces-

sary. Credit will be granted for only one prefix: PSY or WMS. (Multicultural)

PSY 3240-3 Infancy (3+0)

Prerequisite: PSY 1001

The focus of this course is on development during the infancy period, from birth to approximately two years of age. Genetic and prenatal influences on infant development will also be discussed. The course will cover the major theories of child development and research related to infant behavior. Emphasis will be placed on the physical/biological, cognitive, and social/

emotional aspects of development during this period.

PSY 3250-3 Child Psychology (3 + 0)

PSY 1001 and satisfaction of all General Studies Level I course requirements Prerequisites:

This course covers the major theories of child development and research related to child behavior. A social science emphasis is placed on prenatal, physical, social, cognitive, emotional, language, and psychological development of normal children. (General Studies-Level

II, Social Sciences)

PSY 3260-3 Psychology of Adolescence (3 + 0)

PSY 1001 and satisfaction of all General Studies Level I course requirements Prerequisites:

This course covers the major theories of adolescence and research related to adolescent behavior. The physical, cognitive, and social/emotional developments of this period will be emphasized, including the influences of peers, parents, and schools. Problems and concerns specific to adolescent development will also be discussed. (General Studies—Level II, Social Sciences)

PSY 3270-3 Adulthood and Aging (3 + 0)

Prerequisite: PSY 1001

This course is a developmental study of the adult from young adulthood throughout the remainder of life. The course will provide a broad overview of emotional, behavioral, social, physical, and intellectual changes that occur during adulthood. Both theories and research findings will be emphasized; applications will be included.

PSY 3280-3 Developmental Research Methods (3 + 0)

Prerequisite: PSY 1001 and PSY 1800 or PSY 3250 or PSY 2270 or SOC 3100

This course focuses on the design and research methods used in the study of human development. This includes a survey of methodology that has been used to study development from a multi-disciplinary approach. The course will provide an overview of the statistics used in the field as well as research design. The appropriateness of different methods for different developmental levels will also be discussed. This course cannot substitute for Psychological Research Methods I or II.

PSY 3310-3 Psychological Research Methods I (2 + 2)

Prerequisites: PSY 2310 and PSY 2320

This course will introduce the student to basic methodology concerned with the collection or

interpretation of data. Experimental techniques will be emphasized.

PSY 3320-3 Psychological Research Methods II (2 + 2)

Prerequisites: P

PSY 2320 and PSY 3310

This course is a continuation of PSY 3310 with emphasis on experimental and field techniques for both laboratory and field research, conducting experiments, and writing research reports.

PSY 3340-3 Cognitive Development and Learning (2 + 2)

Prerequisite:

PSY 1001 and PSY 1800 or PSY 3250 or PSY 2270 or SOC 3100

This course is designed to examine human cognitive development and learning. Topics include the development of cognition and learning throughout the lifespan, psycholinguistics (language acquisition and literacy acquisition), the development of scientific and mathematical thinking in children, and the effects of formal schooling on cognition. Students will complete a practicum project applying the ideas presented in class with children/adults of different ages.

PSY 3400-3 Psychology of Exceptional Children (3 + 0)

Prerequisite:

PSY 2210 or PSY 3250

This course examines the psychology of atypical children: learning disabled, gifted, mentally retarded, physically handicapped, chronically ill, emotionally disturbed, and neurologically impaired. Historical context, research findings, etiology, assessment, intervention options, and prognosis are examined for each exceptionality.

PSY 3420-3 Issues in Social-Personality Psychology: Variable Topics (3 + 0)

Prerequisites:

PSY 1001; PSY 2160 or PSY 2410 or PSY 3000

This course entails in-depth consideration of specific areas and issues in contemporary social psychology and personality theory. Emphasis will be on exploration of current theory, research, and applications. Course content will vary, and course may be repeated twice with different topics for a maximum of nine credit hours.

PSY 3440-3 Cravings and Addictions (3 + 0)

Prerequisite:

PSV 1001

This course offers a multidisciplinary analysis of a broad range of addictive disorders including alcohol or other drugs and a spectrum of behavioral disturbances including excessive eating, exercising, gambling, and risk taking. Emphasis is placed on contemporary strategies for prevention, early intervention and treatment.

PSY 3470-3 Psychology of Violence and Aggression (3 + 0)

Prerequisites:

PSY 1001 and three additional hours of psychology course work

This course provides an in-depth overview of contrasting theoretical approaches to the explanation, prediction, and control of violent and aggressive behaviors, including psychobiological, radical behaviorism, social learning, cognitive social learning, and psychopathological approaches. Specific behavioral foci include youth violence, criminal violence, inner city gang violence, white-collar aggression, combat, terrorism, sexual violence, self-mutiliation, etc., from both legal and psychological perspectives. This course explores socialization systems leading to the development of aggressive and violent behavioral tendencies and factors facilitating the maintenance of these dispositions. Prevention and intervention strategies are considered.

PSY 3450-3 Industrial/Organizational Psychology, (3 + 0)

Prerequisite:

PSY 1001

This course is a comprehensive survey of industrial and organizational psychology for students preparing for careers in science, social sciences, the humanities, education, and business as well as psychology. Applications of industrial psychology to human work situations, personnel selection and training, consumer psychology, advertising, and sales are considered.

PSY 3480-3 The Psychology of Women (3 + 0) (WMS 3480)

Prerequisite: PSY 1001 or WMS 1001

This course presents the history and development of theories, research, and concepts in the psychology of women, including a focus on mental health and illness, the pathology of women's social roles, biological bases of women's behavior, and feminist psychological theories

and research. Credit will be granted for only one prefix: PSY or WMS.

PSY 3500-3 Research Issues: Variable Topics (3+0)

PSY 1001 and PSY 2310 or permission of instructor Prerequisites:

This course presents an in-depth consideration of current areas and issues in experimental psychology, focusing on the scientific investigation of various aspects of psychological functioning. Course content will vary, and the course may be repeated twice with different topics

for a maximum of nine hours of credit.

PSY 3510-3 Behavioral Neuroscience (3 + 0)

BIO 1000 or equivalent. PSY 1001. PSY 2310. and nine additional hours of PSY courses Prerequisite:

This course studies the physiological bases of normal and abnormal behavior with emphasis

on neurology and hormones

PSY 3520-3 Sensation and Perception (3 + 0)

BIO 1000 or equivalent, PSY 1001, PSY 2310 Prerequisites:

This course examines how information about the outside world is sensed and how that information is organized and interpreted to form perceptions. Anatomy and physiology of the sensory systems will be studied, as will perceptual theories, models, controversies, and applications.

PSY 3530-3

Psychology of Learning (3 + 0) PSY 1001, PSY 2310 and nine additional hours of PSY courses Prerequisites:

This course provides a study of basic learning processes. It focuses on experimental test of learning theories, both historical and contemporary. The course emphasizes non-human

investigation while considering human implications.

PSY 3620-3 Abnormal Psychology (3 + 0)

PSY 1001, and any one of the following: PSY 2210, PSY 3000, or PSY 3570 Prerequisites:

Students examine and evaluate the major theories of abnormal behavior: biological, behavioral, psychodynamic, cognitive and humanistic. The course provides a description of the behavior patterns defined as abnormal and examines classification systems and assessment procedures. Students will examine causal models of abnormal behavior from an integrated systems approach. Biological, psychological, and social treatments of psychological disorders are also discussed and evaluated. Classification, etiology, and treatment will be examined

using case studies.

PSY 3700-3 Psychology of Group Prejudice (3 + 0) (AAS 3700/CHS 3700/WMS 3700)

PSY 1001 or AAS 1010 or CHS 1000 or WMS 1001 Prerequisites:

This course covers psychological theory and research that examines causes, consequences, and ways of reducing prejudice and discrimination. Various expressions of prejudice and discrimination are addressed, most notably racism and sexism. Credit will be granted for only

one prefix.

PSY 3920-3 Women's Health Issues (3 + 0) (SOC 3920, HES 3920, WMS 3920)

WMS 1001 or SCOC 1010 or HES 1050 or PSY 1001 Prerequisites:

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.

PSY 3980-3 **Cooperative Education: Psychology (0 + 9)**

Prerequisites: PSY 1001, major or minor in psychology, upper-division standing, permission of instructor

This course provides an advanced internship experience in a private company or governmental agency related to psychology, supervised by professionals on-the-job in conjunction with an MSCD psychology professor. May be repeated once for credit with a different internship.

PSY 4150-3 Introduction to Psychological Testing (3 + 0)

PSY 1001, PSY 2310, and either PSY 3000 or PSY 3620 Prerequisites:

This course studies psychological tests which are used in the measurement of achievement, aptitude, and personality. The class stresses reliability and validity of these instruments and

the utility and limitations of each type of evaluation measure.

PSY 4410-3

Human Factors Engineering (3 + 0)

Prerequisites:

PSY 1001 and PSY 2310, or permission of instructor This course surveys the field of human factors engineering focusing on identifying the strengths and limitations of humans, in order to apply human factors design principles in optimizing human interactions with both mechanical and environmental systems, as well as workplace, home, and other environments. Emphasis is on the industrial applications of human factors design principles and psychological research data.

PSY 4450-3 Prerequisites;

Advanced Statistics: SPSS (3 + 0)

Completion of PSY 2320 and a minimum grade of B in both PSY 2310 and PSY 2320

This course offers study of multivariate statistics such as multiple regression, factor analysis, discriminate analysis, and multivariate analysis of variance. Students will learn how to use the Statistical Package for the Social Sciences (SPSS) to perform the necessary statistical tests. Emphasis will be on understanding, application, and interpretation of multivariate statistics.

PSY 4510-3

History and Systems of Psychology (3 + 0)

 $15\ semester\ hours\ of\ psychology,\ satisfaction\ of\ all\ Level\ I\ and\ Level\ II\ General\ Studies\ course$ Prerequisites:

requirements, and senior standing

This course presents a critical survey of major theoretical and meta-theoretical systems in psychology from an historical perspective. Philosophical assumptions as well as cultural and political forces will be discussed. Similarities and differences among the various theoretical models will be highlighted. The student will synthesize and critically evaluate material from previous courses in psychology. (Senior Experience)

PSY 4570-3 Prerequisites:

Cognitive Psychology (3 + 0)

PSY 1001 and PSY 3310

This course examines current research and theories in cognitive psychology. Topics covered include: attention, pattern recognition, perception, memory, language, thinking, categorization, problem solving, reasoning, and decision making. The information processing and other perspectives to the study of cognition are examined.

PSY 4950-3

Pro-seminar in Psychology: Variable Topics (3 + 0)

Prerequisites: junior or senior standing and psychology major or minor

This course is an intensive teaching seminar, intended for advanced students majoring or minoring in psychology, organized around a selected theme. Course content will vary, and the course may be repeated once for credit for a different topic.

PSY 4960-3 Prerequisites:

Senior Thesis in Human Development (3 + 0)

senior standing, completion of at least 33 hours in human development major and PSY 3280 This course is designed for human development majors as the culmination of the program course work. Students will develop an interdisciplinary bibliography and utilize research methodology to write and present orally a senior thesis. Each student's thesis topic, concentrating on an area of human development, will be individually chosen, crafted, and researched to synthesize the diverse developmental perspectives surrounding the issue. Topics may be as diverse as evaluating teaching methods, tracking development of a specific skill in children, observing specific aspects of family interactions, and comparing methods of eldercare. Students will meet in seminar with the instructor to work on course objectives and orally present

their theses. (Senior Experience)

PSY 4970-3

Teaching of Psychology (1 + 4)

Prerequisites:

fifteen semester hours of psychology and junior or senior standing, psychology major or minor This course provides intensive experience as an undergraduate teaching assistant under close faculty supervision. The experience includes lecture/seminar meetings and additional hours of application each week. During the seminar portion of the course, students will learn about preparing a learning environment, performing textbook selection, and writing materials required for teaching. Students will also be given guidance on job/graduate school preparation. Students may take the course only once for credit but may later do a two-credit independent study with a different supervising professor.

RECREATION PROFESSIONS

Special Note: No more than four semester hours in human performance and sport activity (HPL) courses will be counted toward a bachelor's degree for students who are not majoring in Human Performance and

RECR 1870-3 Introduction to Recreation and Park Services (3 + 0)

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.

RECR 2110-4 Recreation Leadership Skills and Techniques (3 + 2)

This course is designed to develop and enhance recreation leadership skills used in the delivery of recreation and park services.

Managing Outdoor Recreation Programs (3 + 0) RECR 2210-3

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.

RECR 2330-3 Advocacy, Leisure, and the Aging Adult (2 + 2)

This course studies the impact of advocacy and social action programs for the aging adult. Discussions include issues at the local, state, and national levels and their implications for recreation programs. Students will have the opportunity to become involved with community advocacy programs.

RECR 3070-3 Health and Movement Problems in the Aging Adult (3 + 0)

Prerequisites:

BIO 2310, HPS 1640; or permission of instructor

This course is designed to acquaint the student with the anatomical and physiological changes that occur with aging and how they affect the health and mobility of the aging adult. Physical activity will be discussed as an intervention procedure that can be used to minimize problems associated with these changes. This course will include an opportunity for on-site observation and involvement.

RECR 3330-3 Introduction to Therapeutic Recreation Services (3 + 0)

Co/Prerequisites:

RECR 1870 or permission of instructor

This course surveys the recreation needs of individuals with disabilities. It provides an overview to therapeutic recreation services, including those in both healthcare agencies and community-based settings.

Program Development in Therapeutic Recreation (3+0)RECR 3430-3

Prerequisites:

RECR 3330

This course focuses on applying programming concepts including conceptualization, planning, implementation and evaluation of comprehensive and specific therapeutic recreation services. Equipment, program modifications and adaptations are discussed.

RECR 3530-4 Techniques in Therapeutic Recreation (3 + 2)

Prerequisites:

This course will examine tools, techniques, and procedures utilized in the delivery of therapeutic recreation services. Assessment, individual treatment plans/program plans, documentation, and community integration skills are discussed. Application of content to practice in the field is required.

RECR 3840-4 Design and Maintenance of Recreation and Park Resources

Pre/Corequisites: RECR 1870 or permission of instructor

This course examines the planning, design, and maintenence of recreation facilities and equipment, including recreation centers, sports areas, parks and open space, aquatic areas, and commercial recreation facilities.

RECR 3870-2 Internship Seminar for Recreation and Park Professions (2+0)

Prerequisites:

RECR 3970 or permission of instructor

The course prepares the recreation major for an internship placement in the recreation and parks field. Topics include goal setting, agency identification, supervisor qualifcations, professional certification, ethics, professional development, time management, philosophy, and financial issues.

RECR 3930-1-3 Contemporary Issues in Recreation and Parks: Variable Topics (1-3 + 0)

This is a variable titled course focusing on a variety of contemporary issues impacting the recreation and park field. This course cannot be repeated for credit under a similar title.

RECR 3970-3 Practicum in Recreation, Parks, or Therapeutic Recreation (1 + 6)

Prerequisites:

RECR 2110 or permission of instructor

This is a 90-hour, structured practical experience working in recreation, parks or therapeutic recreation. The course allows students to apply concepts learned in the classroom and to explore career opportunities. This experience will be under the supervision of an agency professional and MSCD faculty member.

RECR 3990-1-3 Field Experience in Recreation and Park Professions (0.5-1 + 1 - 4)

Prerequisites:

permission of instructor

This course provides the student with an opportunity to gain practical experience in recreation and parks, including settings such as recreation centers, resorts, private clubs, nonprofit organizations, hospitals and healthcare organizations, specialized sports facilities, and outdoor areas.

RECR 4030-3 Issues and Trends in Therapeutic Recreation (3 + 0)

Prerequsites:

RECR 3330

This course focuses on contemporary issues impacting the profession in therapeutic recreation and includes topics such as standards of practice, ethical guidelines, credentials, philosophies, training and competency, reimbursement and research initiatives.

Program Development in Recreation Services (3 + 0)RECR 4110-3

Prerequisites:

RECR 1870, RECR 2110, RECR 3970; or permission of instructor

This course prepares students to develop effective recreation programs in diverse settings, including urban, public, private and volunteer agencies.

RECR 4130-3 Administration of Recreation and Park Services (3 + 0)

Prerequisites:

RECR 1870, RECR 2110, RECR 3970; or permission of instructor

This course provides knowledge of the principles and practices required for the management of recreation and park agencies. Topics include personnel management, fiscal management, legal aspects, computer applications, evaluation, and research.

RECR 4150-4 Advanced Topics in Therapeutic Recreation (4 + 0)

Prerequisites"

RECR 3330, RECR 3530; or permission of instructor

This course focuses on intervention techniques applicable to the leadership of therapeutic recreation. Individual and group facilitation techniques are discussed, including the development of a leisure education program. Opportunities for involvement in clinical or community-based therapeutic recreation programs will be provided.

RECR 4550-3 Management of Aquatic Resources (3 + 0)

Prerequisites:

permission of instructor
This course emphasizes the development, organization, and management of diverse aquatic programs and facilities. Students will have the opportunity to seek appropriate certification as pool operators.

RECR 4630-3 Recreation Programs for the Older Adult (3 + 0)

Prerequisites:

at least junior standing

This course studies the role of recreation and leisure services as they relate to understanding the needs of services for the older adult. Emphasis will be on recreation planning in senior centers, skilled nursing facilities, day care centers and long-term care facilities.

Sociology of Athletics in American Society (3 + 0) RECR 4730-3

Pre/Corequisites: Sociology 1010 and at least junior standing

This course will examine and utilize basic sociological concepts to explain the relationship of sport to society. In addition, it will investigate the impact of sports and athletics on our culture (General Studies -Level II, Social Sciences).

RECR 4790-2 Applied Research and Evaluation (1 + 2)

Prerequisites: Corequisites:

RECR 4130

RECR 4890

This course provides students with the opportunity to learn and practice applied research and program evaluation skills in conjunction with their internship.

RECR 4810-3 Grants and Grant Writing in the Health Professions (3 + 0)

This course provides the student in the health professions with an understanding of funding sources, resources to locate funding agencies, and the grant writing process. Students will write a grant proposal for a community agency.

RECR 4850-3 Advanced Administration in Recreation and Parks (3 + 0)

Pre/Corequisites: RECR 4130

This course provides an intensive opportunity to develop administrative skills. Topics include research and evaluation methodologies, marketing, funding (e.g., bonds, partnerships), and human resource management.

RECR 4890-10 Internship in Recreation, Parks, or Therapeutic Recreation (1 + 32)

Recreation Professions major, senior standing, completion of major core and concentration Prerequisites:

area courses, minimum 2.75 GPA, completion of Level I and II General Studies

Corequisites: **RECR 4790**

> This course is designed to provide the recreation major with an intensive practical experience in the field of recreation, parks, or therapeutic recreation. Students must complete a minimum of 12 weeks with 480 clock hours at their agency. Students will be evaluated with either an "S" satisfactory or a "U" unsatisfactory. (Senior Experience)

READING

RDG 1510-3 Cognitive Strategies for Analytical Reading (3 + 0)

minimum performance standard score on the reading preassessment placement test Prerequisite:

This course is designed to expand communication strategies in reading, listening and reasoning. Through pragmatic assignments, students will have the opportunity for guided practice and application. (General Studies—Level I, Communications)

RDG 3060-3 Critical Reading/Thinking (3+0)

Prerequisites: RDG 1510 or permission of instructor and satisfaction of Level I General Studies course

requirements

This course is designed to develop and expand analytical, creative and evaluative thought processes. Students will apply their critical reading and thinking processes as they study academic and societal issues. They will learn strategies for transferring these processes to other

situations. (General Studies—Level II, Arts and Letters)

RDG 3110-3 Foundations of Literacy Instruction in Grades P-6 (3 + 0)

Prerequisites:

PSY 1800, EDU 3100 (for elementary licensure students) or permission of instructor, and satisfactory completion of General Studies Level I composition and mathematics requirement This course builds the knowledge base of prospective teachers and includes the research and theoretical foundation of P-6 developmental reading programs. It stresses the environmental, cognitive, and language factors influencing the acquisition and development of literacy with emphasis on phonological awareness and graphophonemics. In this course, preservice teachers gain a current knowledge base which will enable them to select instructional techniques, materials, and assessment instruments that will facilitate the literacy development of diverse learners. For licensure, this knowledge base course must be followed by a second reading course, either RDG 3120 for early childhood licensure candidates or RDG 4000 for elementary licensure candidates, that will emphasize performance-based and field-based learning experiences.

RDG 3120-3 Developing Print Literacy: Preschool-Grade 3 (3 + 0)

Prerequisite: Corequisites: RDG 3110

ECE 3150, ECE 3160

Standards-based instructional techniques for literacy in a balanced literacy program, preschool-grade 3, are built on a foundation of oral language development. The focus of this course is on instruction which enables children to develop the skills, concepts, and attitudes necessary for greatest success in becoming proficient readers and writers. Diverse student populations are addressed when selecting instructional approaches and designing materials for literacy development. The content of this course is practiced in the field experience course, ECE 3160, shared with a planning and management course that is taken concurrently.

RDG 3140-3 Integration of Reading and Writing Across the Curriculum, K–12 (2.5+1)

RDG 3120 or RDG 3280 or RDG 4000 or permission of instructor Prerequisite:

Teacher candidates will use quality literature and informational text as they learn to plan, implement, and assess standards based literacy instruction with an emphasis on the integration of reading and writing. They will learn to facilitate the writing process using writers' notebooks and quality texts as models. Instructional activities will be implemented in a fifteen-hour field experience.

RDG 3150-4

Middle School Instructional Reading and Writing Strategies (4 + 0)

Prerequisites:

EDS 3110 and EDS 3120 or permission of instructor

This course focuses on the instructional strategies available to the middle school teacher. Emphasis is placed on using an integrated reading and writing approach to the middle school academic core. Extensive practice will be done in writing interdisciplinary thematic units that are developed around compelling personal and social issues for the middle school student.

RDG 3280-4

Teaching Literacy Skill Development in the Content Areas (4 + 0)

Prerequisites: Corequisites:

EDS 3110 and EDS 3120 or permission of instructor EDS 3210 and EDS 3220 (EDS 3222 for Mathematics teacher candidates) are highly recommended for those seeking secondary endorsements. For those seeking K-12 endorsements, courses in meth-

ods of teaching and field experience in the content area are highly recommended. This course is for students seeking educational licensure in a K-12 or 7-12 content area. Course content and objectives prepare teacher candidates to develop student literacy in reading, writing, speaking, viewing and listening. Evidence of teacher candidate proficiency in developing literacy strategies that impact student content learning will be required for course completion. Ideally, RDG 3280 is taken concurrently with EDS 3220 (EDS 3222 for Mathematics teacher candidates) for those seeking endorsements in secondary education. Students seeking K-12 endorsements should ideally take this course concurrently with methods of teaching and field experience in the content areas. In all cases, selected literacy strategies will be applied in a field-based setting.

RDG 3290-4

Literacy in the Content Areas for Secondary English Language Learners (4 + 0)

Prerequisite:

RDG 3280 or permission of Instructor

This course in English language acquisition theory and teaching techniques is designed to extend secondary educators' knowledge of literacy instruction in the content areas to English language learners. Through this course teacher candidates will gain a current knowledge base which will enable them to work effectively with English language learners in their subject-specific classrooms. Teacher candidates will write lesson and unit plans encompassing the knowledge obtained in the course, and will implement one lesson and reflect upon the effectiveness of their teaching. This course contributes to the essential knowledge and dispositions required of teachers who work with secondary English language learners, and serves as a foundation for further study in the field of English language acquisition and theory and teaching techniques.

RDG 3530-3

Foundations of Language and Literacy for English Language Learners in Elementary Classrooms (3+0)

Prerequisite:

RDG 3120 or permission of instructor

This course in English language acquisition theory and language and literacy development instruction techniques is designed to extend elementary educators' knowledge of literacy instruction to English language learners. Through this course teacher candidates will gain a current knowledge base which will enable them to develop language and literacy of the English language learners in their elementary classrooms. Teacher candidates will write lesson and unit plans encompassing the knowledge obtained in the course, and will reflect upon the effectiveness of these plans. This course contributes to the essential knowledge and dispositions required of teachers who work with elementary English language learners.

RDG 3580-3

Reading in the Bilingual–Bicultural Classroom (3 + 0)

Prerequisites:

RDG 3120 or RDG 3280 or RDG 4000 and proficiency in Spanish

This course emphasizes the teaching of Spanish reading skills in the bilingual-bicultural class-room, preschool through third grade. Methods and techniques for systematically teaching the primary child to speak and read the Spanish language are included.

RDG 4000-3 Prerequisites:

Literacy Instruction in Grades K-6 (3 + 0)

RDG 3110, EDU 3640, EDU 3650 EDU 4100, EDU 4105

Corequisites:

In this course, teacher candidates will extend and apply various components of a K-6 developmental reading program for balanced literacy instruction. They develop and implement instructional plans, materials, and assessment techniques with emphasis on reading and writing standards to succeed in the literacy development of diverse learners. The content of this course provides teacher candidates the opportunity to practice theoretical concepts through structured observations, teaching assignments, and assessment techniques in conjunction with a language arts methods course.

RDG 4250-4 Literacy Assessment: Theory and Practice (4+0)

Prerequisite: RDG 3120 or RDG 3280 or RDG 4000, or permission of instructor

In this course teacher candidates will learn how to assess student literacy development from grades pre-K-12. They learn to administer and interpret appropriate assessment instruments and use the results to write instructional plans designed to further literacy development for a

diverse population of students.

Current Literacy Issues: Variable Topics (1-3+0)RDG 4550-1-3

RDG 3120 or RDG 3280 or RDG 4000 or permission of instructor Prerequisite:

This variable topics/variable credit course will enable students to pursue an in-depth study of one or more literacy issues that are not covered to a great extent in other reading courses.

Course may be repeated for credit for different topics.

RDG 4600-3 Practicum in Literacy Enhancement (1 + 4)

satisfaction of all Level I and Level II General Studies course requirements, senior standing, Prerequisites:

and RDG 4250 or permission of instructor

This course involves one-to-one instructional sessions in literacy enhancement for children brought to the campus or in Denver area schools. Appropriate assessment instruments are administered and the results are interpreted and used to plan and implement effective tutoring sessions. A total of 50 clock hours with the children is required. (Senior Experience)

SCIENCE

Integrated Natural Science I (1 + 4) SCI 2610-3

Prerequisites: minimum performance standard scores on reading and writing preassessment tests and MTH 1080 or MTH 1610 or equivalent, or permission of instructor; and either ENG 1010 or

completion of the Level I General Studies Communication requirement

This interdisciplinary course investigates the integrated nature of scientific knowledge and explores the common foundations of the physical sciences. The focus of this first course, in a two-course sequence, is on the primary content areas of physics and chemistry with extensions to astronomy, earth system science, and biology. This course develops operational and reasoning skills in the sciences through a student-centered, cooperative-inquiry approach to learning and instruction using a combined laboratory/classroom/field lecture format. Three

field trips are required. (General Studies—Level II, Natural Science)

SCI 2620-3 Integrated Natural Science II (1 + 4)

SCI 2610 or permission of instructor Prerequisite:

This second semester of the Integrated Natural Science sequence reinforces skills and develops knowledge through applications in the primary content areas of biology, astronomy, and earth system science integrating the foundational principles of physics and chemistry. Three field trips are required. (General Studies—Level II, Natural Science)

SCI 3950-3 Teaching Science in Middle and Secondary Schools (3 + 0)

EDS 3110, EDS 3120, EDS 3200 or permission of instructor; major or minor in science; to be Prerequisites:

taken within 2 semesters of student teaching

Corequisite: EDS 3210 and EDS 3220 recommended

This course is designed for students preparing for teaching science in middle and secondary schools. Students learn to choose, develop and evaluate curriculum based on learner characteristics and Colorado Model Content Standards. A variety of approaches to science instruction are included. The emphasis is on hands-on, minds-on learning. Students have opportunities to implement a variety of approaches to science instruction in a field experi-

ence coordinated with EDS 3220.

SPECIAL EDUCATION COURSES

SED 2200-3 Diversity, Disability, and Education (3 + 0)

This course provides an overview of the philosophical, historical, and sociological foundations of general and special education, with an emphasis on the multicultural perspectives. Educational approaches for meeting the needs of ethnically diverse learners, as well as students with disabilities that have linguistic and cultural differences are emphasized. (General Studies—Level II, Social Sciences, Multicultural) (GT-SS3)

SED 2700-3

Social/Emotional Development and Disorders (3 + 0)

Prerequisites: S

SED 2200, SED 2400, EDT 2890, or permission of instructor

This course provides an overview of the major concepts and historical antecedents of special education services for children and youth with social, emotional and behavioral difficulties. Teacher candidates will develop an understanding of basic concepts related to the social, emotional and behavioral development of children and youth, and the concepts related to disordered behavior.

SED 3600-3

The Exceptional Learner in the Classroom (3 + 0)

This course provides a survey of various exceptionalities, ranging from moderate to severe. Information about child abuse and medical conditions, and their possible effects on student learning and behavior is provided. Teacher candidates are introduced to the special education processes, including the development of individualized education plans from a general education teacher perspective. Principles of universal design for curriculum accessibility are addressed.

SED 3650-3

Curriculum and Content Standards (3 + 0)

Prerequisite: SED 3600

This course provides an overview of the Colorado Model Content Standards for purposes of preparing special educators to address this curriculum in remedial and inclusive environments. Standards for language arts, physical education, social studies, science, mathematics, and the arts will be examined. Lesson planning, IEP development, and adaptations/accommodations will be emphasized in reference to team teaching with general education partners.

SED 3700-3

Educational and Medical Aspects of Disabilities (2.5 + 0.5)

Prerequisites: SED 366

This course provides an overview of the multidisciplinary needs of individuals with physical, communicative, cognitive and sensory disabilities. Emphasis is given to explaining how medical needs impact educational experiences. Principles of Universal Design for Learning (UDL) will be addressed. Teacher candidates must complete a 15-hour field experience in an assigned public school that provides services for students with severe disabilities.

SED 3750-3 Prerequisites:

Assessment, Methods, and Assistive Technology for Severe Disabilities (2 + 1)

s: SED 3600, SED 2200, SED 3700

This course is designed to introduce pre-service teachers to assessment, curriculum and instruction for students with severe disabilities. Focus will be given to including students in their neighborhood shoools, home,work, and community. The course also emphasizes the selection and efficacy of assistive device technologies. A minimum 45-hour, field based experience is required.

SED 3800-3

Differentiated Instruction for Mathematics and Literacy (2 + 2)

Prerequisites:

SED 3600, SED 3650 or permission of instructor

This course is designed to teach methods and adaptations for literacy and mathematics instruction for students with disabilities in a variety of classroom settings. Focus will be given to differentiated instruction to address the individual education plan (IEP) goals. A minimum 45-hour, supervised field-based experience is required. A component of the teacher work sample is produced to demonstrate developing skills.

SED 4050-3

Evaluation and Program Planning (2.5 + 0.5)

Prerequisites: SED 3600, SED 3650, or permission of instructor

This course focuses on making informed decisions on the selection, use, and interpretation of formal and informal instruments for the assessment of students with moderate disabilities. Teacher candidates must complete a series of assessments and reports during a minimum 15-hour field-experience in a public school.

SED 4200-3

Language Development and Reading Disabilities (2 + 2)

Prerequisites: SED 3600, SED 3650, SED 3800, or permission of instructor

This course focuses on the nature, diagnosis, and treatment of language disorders in reference to reading disabilities. This course will emphasize language development and the remediation of reading problems associated with learning disabilities. The class includes a minimum of 45 hours of field-based experience in a secondary school setting.

SED 4250-3 Effective Behavioral Support Systems (3 + 0)

SED 3600, SED 3650, or permission of instructor Prerequisites:

This course is designed to introduce the management process in the classroom from a decision-making perspective. The use of systematic behavioral assessments, functional behavior assessment plans, and intervention strategies such as social skill development are emphasized. Teacher candidates are prepared to apply Universal Design for Learning (UDL) principles and management decisions in diverse contexts that include both general and special educa-

tion classes.

SED 4300-3 Assessment and Methods for Emotional/Behavioral Disorders (2 + 2)

Prerequisites: SED 2200, SED 3600, SED 4250

This course is designed for teacher candidates to learn how to select, adapt, and use instructional interventions and strategies with students with emotional and behavioral disorders (E/ BD) in a variety of settings. Students are required to apply knowledge and skills in a 45-hour field-based experience. Theoretical approaches, screening/identification, educational placement considerations, and assessment and evaluation issues will be addressed. In addition, specific categories of disordered behavior such as bipolar, depression, anxiety, oppositional

defiant disorders, schizophrenia, and childhood psychosis will be discussed.

SED 4420-2 Issues in Special Education (2 + 0)

EDT 2890, RDG 3110, SED 2200, SED 2400, SED 2700, SED 2800, SED 3600, SED 3700, SED Prerequisites:

3800, SED 4050, SED 4200, SED 4250, or permission of instructor

This course focuses on current and emerging issues in the field of special education.

SED 4430-3 Assessment, Instruction & Collaboration Practicum: Elementary (1 + 16)

SED 2200, SED 3600, SED 3650, SED 3700, SED 3800, SED 4050, SED 4200, SED 4250, SED Prerequisites:

4430 or permission of instructor

This practicum is a culminating experience that provides teacher candidates with a structured, supervised elementary level practicum in a special education setting for children with disabilities. Several components of the teacher work sample are produced to demonstrate developing skills. The seminars are designed to address assigned topics and activities that are

linked to the teaching responsibilities of the practicum. (Senior Experience)

SED 4440-3 Assessment, Instruction & Collaboration Practicum: Secondary (1 + 16)

SED 2200, SED 3600, SED 3650, SED 3700, SED 3800, SED 4050, SED 4250 Prerequisites:

This practicum is a culminating experience that provides teacher candidates with a structured, supervised secondary level practicum in a special education setting for adolescents with moderate needs. Several components of the teacher work sample are produced to demonstrate developing skills. The seminars are designed to address assigned topics and activities that are linked to the teaching responsibilities of the practicum. (Senior Experience)

SED 4490-6,12 Special Education Student Teaching and Seminar: Elementary (1 + 40)

Prerequisites: must have completed all required courses for the program (see advisor for specific courses for

a particular program)

This course is a full-time special education student teaching experience in an accredited elementary public or private school that provides teacher candidates responsibility for teaching an identified group of learners with exceptionalities. A minimum of 8 weeks is required for 6 credits, and a minimum of 16 weeks is required for 12 credits. College supervisors provide regularly scheduled observations and seminars, and guidance on the development of the

teacher work sample. (Senior Experience)

SED 4500-6,12 Special Education Student Teaching and Seminar: Secondary (1 + 40)

must have completed all required courses for the program (see advisor for specific courses for Prerequisites:

a particular program)

This course is a full-time special education student teaching experience in an accredited secondary public or private school that provides teacher candidates responsibility for teaching an identified group of learners with exceptionalities. A minimum of 8 weeks is required for 6 credits, and a minimum of 16 weeks is required for 12 credits. College supervisors provide regularly scheduled observations and seminars, and guidance on the development of the

teacher work sample. (Senior Experience)

SOCIOLOGY

SOC 1010-3 Introduction to Sociology (3 + 0)

minimum performance standard scores on the reading and writing preassessment placement tests Prerequisite:

A course that facilitates the development of a sociological perspective as it applies to understanding the social forces that shape persons' lives, interests and personalities. Emphasis is on the scientific study of groups; the importance of culture; the processes of socialization, social control, and social conflict; and the major institutions of society. (General Studies-Level II,

Social Sciences) (GT-SS3)

SOC 1040-3 Introduction to Social Gerontology (3 + 0)

minimum performance standards on the reading, writing and mathematics preassessment Prerequisite:

placement tests
This course is a study of the processes of aging, biological and social, of the impact of the environment on the personality and behavior of older persons and their roles in society.

(General Studies Course Level II, Social Sciences, Multicultural)

SOC 2000-3 Social Movements and the Black Experience (3 + 0) (AAS 2000)

AAS 1010, SOC 1010, or permission of instructor Prerequisites:

Analyzes and interprets the nature, cause and consequence of black social movements in the United States, ranging from the slave period to the present. Particular attention is given to the Civil Rights movement of the 1950s and 1960s. Credit will be granted for only one prefix:

SOC or AAS.

SOC 2010-3 Current Social Issues (3 + 0)

Prerequisites: satisfaction of General Studies Level I or permission of instructor

This course presents an analysis of the causes and consequences of major social problems, such as crime, family violence, racial and ethnic conflict and poverty, using examples from contemporary America in conjunction with historical and cross-cultural data. (General

Studies—Level II, Social Sciences)

SOC 2500-3 Deviant Behavior in Society (3 + 0)

Prerequisite: SOC 1010

An introduction to the study of various types of deviance in societies, their sources and consequences. Several definitions and theoretical approaches are presented and analyzed, with applications to such contemporary topics as crime and delinquency, mental disorders, and

society's "outsiders."

Art and Craft of Sociological Writing (3+0) SOC 2600-3

SOC 1010, satisfaction of Level I Composition course requirement Prerequisites:

This course offers instruction and practice in the specific techniquies of writing for social science research. Particular emphasis is placed on contents and formats required for social issue analyses, critical reviews of existing literature, and research reports based on qualitative and quantitative data. Skill development in these areas prepares sutdents to utilize and produce

social science documents for academic and non-academic contexts.

SOC 3040-3 Contemporary Issues in Gerontology (3 + 0)

Prerequisite:

A focus on economic, social, political, and cultural issues relevant to aging and the aged, including such topics as minority status, social definitions and restrictions, pensions and income, medical care, institutionalization, senior housing, transportation and relationships

between the generations.

SOC 3080-3 Social Action Through Art (3 + 0)

Prerequisite: SOC 1010 or permission of instructor

This course examines the ways in which sociological concepts and theories relate to the visual arts in contemporary social life. The course emphasizes the various contexts in which visual arts are used to create social integration and social change in small and large groups. In addition, the content of the course provides insight about ways that practitioners may apply soci-

ological principles to create art-related ventures for public and private industries.

SOC 3090-3 Urban Sociology (3 + 0)

Prerequisite: SOC 1010

The history and development of the modern city and its relationship to social and cultural change will be the focus of this course. Social problems, power structures and social organization, including class divisions, migrants and urbanites, urban institutions, and mass com-

munications and urban leisure will be examined.

SOC 3100-3 Death and Dying (3 + 0)

Prerequisite: SOC 1010

An examination of attitudes, customs and institutions related to death and dying, approached three-dimensionally: from the viewpoint of the individual, of society, and of established institutions. Relevant for students in medicine, psychology, law, nursing, law enforcement, human

services, business, education and the behavioral social sciences.

SOC 3130-3 The Chicana/o Community (3 + 0) (CHS 3100)

CHS 1000 or SOC 1010 or permission of instructor; satisfaction of all Level I General Studies course Prerequisites:

This course provides an in-depth sociological analysis of the Chicana/o community with a focus on the vital role that formal organizations play in generating commmuniy action and social change. This course examines the origins and functions of community organizations and their impact in meeting the social, economic and political needs of the Chicana/o community. Credit will be granted for only one prefix: CHS or SOC. (General Studies-Level II,

Social Sciences; Multicultural)

SOC 3140-3 The Black Community (3 + 0) (AAS 3300)

AAS 1010 or AAS/SOC 2000, or permission of instructor and satisfaction of all Level I General Prerequisites:

Studies course requirements

Relates fundamental concepts and theories of sociology and African American studies to the study of the black community through an analysis of the educational, political, religious, economic and family dimensions. Emphasizes local, national and international black communities. Classic and contemporary Black community studies are examined. Credit will be granted for only one prefix: SOC or AAS. (General Studies—Level II, Social Sciences; Multicultural)

SOC 3220-3 Prejudice and Discrimination in Contemporary Society (3 + 0) (AAS 3220 / WMS 3220)

SOC 1010 or WMS 1001, or permission of instructor; satisfaction of all Level I General Stud-Prerequisites:

ies course requirements

This course examines the origins and characteristics of race, racism, gender biases and ethnic prejudices, their origins and characteristics; facts and myths about populations including the social, psychological, and cultural sources of discrimination and bias; and implications in current societal structures and institutions. Credit will be granted for only one prefix:

AAS, SOC or WMS. (General Studies—Level II, Social Sciences; Multicultural)

SOC 3240-3 Poverty in America (3 + 0)

Prerequisite: SOC 1010

An examination of urban poverty and of political, economic and social factors contributing to and perpetuating various conditions of the poor. Also included is an analysis of past and

current poverty programs and their impact on America's underprivileged.

SOC 3320-3 Sociological Theory: Past and Present (3 + 0)

Prerequisite: SOC 1010

An analysis of major sociological theories, from those of Comte, Marx, Durkheim, Weber and others in the late nineteenth century, to contemporary theoretical approaches in sociology. Emphasis is on comparison and critical understanding of the varying perspectives and

on the continuing development of differing theories in changing social contexts.

SOC 3400-3 Childhood and Adolescent Socialization (3 + 0)

Prerequisite: SOC 1010

An analysis of the socialization of children and adolescents in American society, emphasizing the impact of the family, education, religious organizations, the mass media and teenage subcultures on the socialization process. Socialization in other cultures will be studied for comparison.

SOC 3410-3 The Family in Transition (3 + 0)

Prerequisite:

This course is designed to provide an in-depth sociological analysis of the family as a social institution in a changing society. Major theoretical perspectives will be incorporated to facilitate an understanding of significant social transitions, trends and issues of varying patters of contemporary family life. Dimensions of the family are examined through interactive rela-

tionships including ethnicity, gender, age, and social class.

SOC 3420-3 Education in a Changing Society (3 + 0)

SOC 1010 Prerequisite:

This course provides an in-depth sociological analysis of the family as a social institution in a changing society. Major theoretical perspectives will be incorporated to facilitate an understanding of significant social transitions, trends and issues of varying patters of contemporary family life. Various dimensions of the family are examined including ethinicity, gender,

age and social class.

Gender and Society (3 + 0) (WMS 3350) SOC 3430-3

Prerequisite: SOC 1010 or WMS 1001; or permission of instructor

This course explores historical and contemporary social, political, and economic trends affecting the roles of women and men in society. The emphasis is on the historical, social, and cultural forces that have contributed to gender construction in the United States and in other societies. The effects on individuals and the broader society in terms of maintaining and/or changing gender expectations are analyzed. Credit will be granted for only one prefix: SOC or WMS.

SOC 3440-3

The Black Family (3 + 0) (AAS 3550)
AAS 1010 or SOC 1010 and satisfaction of all Level I General Studies course requirements Prerequisites:

Provides an in-depth exploration of the black family as a social institution. Emphasizes the historical roots of the black family and how the African influence is still enmeshed in the functioning of the family in modern society. Examines the factors responsible for the ability of the black family to meet the challenge of a changing society. Credit will be granted for only one prefix: SOC or AAS. (General Studies—Level II, Social Sciences)

SOC 3460-3 Sociology of Sexuality (3 + 0)

Prerequisite: SOC 1010

This course is a survey of historical, cultural and social aspects of human sexuality. The interplay between sex and society will be the major focus. Cross-cultural and historical analysis of sexual values and behavior will be examined. Competing and conflicting sexual value systems in contemporary societies will be analyzed. Other topics include: sexual scripts, sexual deviance and social control, sexual socialization processes and the social bases of sexual dysfunction.

SOC 3470-3 The Chicano Family (3 + 0) (CHS 3210)

CHS 1000 or SOC 1010 or permission of instructor; and satisfaction of all General Studies Prerequisites:

Level I course requirements

This course provides an in-depth analysis of the Chicano family as a social institution. The course covers the social and economic history of the Chicano family in the Southwest and examines contemporary patterns of urban Chicano family life in a changing society. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences)

SOC 3500-3 Criminology (3+0)

Prerequisite:

A sociological analysis of the nature, causes and treatment of crime and delinquency; of the

processes by which such persons and behaviors develop.

SOC 3510-3 Juvenile Delinquency (3 + 0)

Prerequisite: SOC 1010

This course emphasizes the universality and variability of misconduct and delinquencies of youth. In addition, the course examines the youth subculture, gangs, drug addiction, the

juvenile justice system and the effects of child abuse.

SOC 3550-3 Sociology of Law (3 + 0)

SOC 1010 Prerequisite:

The interplay between social forces and law is the major focus of the course. Sociological theories about the interplay between social-cultural factors and law will be elaborated. The role of value orientations, one's position in the social structure and other sociological variables in the legislative process will be discussed. Conflicts regarding appropriate legislation and enforcement will be debated and analyzed.

Social Statistics (3 + 0) SOC 3590-3

MTH 1210 and SOC 1010 or permission of instructor Prerequisites:

Begins with a review of descriptive and inferential statistics and their application to social phenomena. The course covers measures of association and non-parametric statistics using SPSS as the computer package. Includes: measures of central tendency, variability, probability,

chi square, lambda, gamma, tau, Somer's d, r and non-parametrics.

SOC 3600-3 Research in the Social Sciences (3 + 0)

Prerequisite: SOC 1010

An introduction to research in the social and behavioral sciences, emphasizing student experience in the actual application of a variety of modern social scientific data-gathering, inter-

pretation and reporting techniques.

SOC 3650-3 Contemporary Social Trends: Variable Topics (3 + 0)

Prerequisite:

An examination of trends and/or issues in contemporary society, using the sociological perspective. Each section addresses a separate issue or development. This course may be repeated

for credit under different topics.

Women and Poverty (3 + 0) (SOC 3660, WMS 3660) SOC 3660-3

Prerequisites: SOC 1010, or WMS 1001 or SWK 1010; or permission of instructor

This course introduces the student to the relationship between gender and poverty and will examine the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors will be explored in detail. The differences between

prevailing stereotypes and current realities will be highlighted.

SOC 3710-3 Politics and Power (3 + 0)

SOC 1010 Prerequisite:

An analysis of the structures of power and decision-making in American society, focusing on the interrelationships between political institutions and other institutions in society, socio-

logical theories of power and possible consequences of various political structures.

Mass Media and Social Behavior (3 + 0) SOC 3730-3

SOC 1010 Prerequisite:

A study of the function of mass media as a dynamic force in political, economic, and social life and its multi-dimensional structure and impact for creating new personal behavior, as

well as collective behavior in contemporary society.

SOC 3750-3 Social Change (3 + 0)

SOC 1010 Prerequisite:

An analysis of the alterations in patterns of culture, social systems and social behavior over time. A variety of theoretical perspectives will be used as a basis for understanding these changes. Factors that contribute to as well as those that inhibit change will be analyzed.

SOC 3770-3 Society and the Environment (3 + 0)

Prerequisites: SOC 1010

This course explores the relationship between humans in social groups and their effect on the natural environment. A variety of social theories are used to analyze these effects. Proposals

for implementing change are evaluated from a sociological perspective.

SOC 3800-3 Health and Healers (3 + 0)

Prerequisite: SOC 1010

The health care system is currently in a state of transition. This course is designed to analyze the changes taking place from a variety of theoretical models. Specific issues as well as the roles of the participants will be analyzed in terms of the impact upon the health of Americans.

SOC 3810-3 Population Issues (3 + 0)

Prerequisite: SOC 1010

This course is designed to introduce students to the study of population change and its consequences. The intention of the course is to examine population trends, issues and policies with an emphasis on the United States. Topics include fertility, mortality, migration, ubanization, family, gender, ethnicity, aging, and social change as well as the practical use of demog-

raphy.

SOC 3830-3 Mental Disorders (3 + 0)

Prerequisite: SOC 1010

An examination of the concepts and treatment procedures for those defined as mentally ill within this society. Specific social variables such as social class, sex, race and marital status

will be analyzed in terms of their influence on diagnosed disorders.

SOC 3910-3 Religious Movements in America (3 + 0)

SOC 1010 or permission of instructor Prerequisite:

A development of a functional theory of religion preceded by an examination of the relationship between religion and such factors as morals, science, magic, personality, ethnicity, social

status, economics, political institutions and social change.

Women's Health Issues (3 + 0) (PSY 3920, HES 3920, WMS 3920) SOC 3920-3

WMS 1001 or SOC 1010 or HES 1050 or PSY 1001 Prerequisites:

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.

SOC 4200-3 Social Stratification and Inequality (3 + 0)

SOC 1010 and 6 hours of upper division sociology or permission of instructor Prerequisites:

This course examines theories of the distribution of scarce resources within human societies and the consequences of social inequality. Topics include: characteristics and consequences of stratification systems; bases of stratification systems in society; measurement of social position; age, gender and ethnic variations in the social mobility process; social class in the United States.

SOC 4350-3 Advanced Seminar in Sociological Theory: Variable Topics (3 + 0)

permission of instructor Prerequisite:

Content varies, but each course involves intensive study and critical analysis of major sociological theories, such as those of Weber, Durkheim, Marx, Simmel, Mannheim, C. Wright Mills, and Parsons; or of selected theoretical systems in contemporary or classical sociology. This course may be repeated for credit under different topics.

SOC 4600-3 Advanced Research in the Social Sciences (3 + 0)

Prerequisites: SOC 1010, SOC 3320, SOC 3600; satisfaction of Level I and Level II General Studies course

requirements, and senior standing

Continuation of SOC 3600. Further application of research techniques, including individual and task-group assignments designed to develop students' skills in designing, organizing, computer coding and doing computer-assisted analysis of selected research projects. (Senior Experience)

SOC 4700-3 Advanced Field Internship (0 + 9)

SOC 2010 and upper-division standing Prerequisites:

An advanced level supervised in-service field experience in the broad area of social concern and the "urban scene," conducted with the cooperation of participating agencies and institutions.

SOC 4710-3 Applied Sociology (3 + 0)

Prerequisites: SOC 1010, SOC 3320, SOC 3590, SOC 3600, satisfaction of all Level I and Level II General

Studies course requirements and senior standing
This capstone course centers on supervised field work. Students will apply theoretical perspectives and methodological techniques within community and organizational settings. (Senior Experience)

SPANISH

SPA 1000-3 Conversational Spanish for Travel I (3 + 0)

This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for personal travel. It does not fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1001-3 Conversational Spanish for Travel II (3 + 0)

Prerequisite: SPA 1000

This course is a continuation of SPA 1000 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for personal travel. It does not fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1002-3 Conversational Spanish for Law Enforcement I (3 + 0)

This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the law enforcement professions. It does not fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1003-3 Conversational Spanish for Law Enforcement II (3 + 0)

Prerequisite:

This course is a continuation of SPA 1002 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the law enforcement professions. It does not fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1004-3 Conversational Spanish for Medical Professions I (3 + 0)

This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the medical professions. It does not fulfill the prerequisite requirements for

any Spanish 2000-level course.

SPA 1005-3 Conversational Spanish for Medical Professions II (3 + 0)

Prerequisite: SPA 1004

This course is a continuation of SPA 1004 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the medical professions. It does not

fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1006-3 Conversational Spanish for School Personnel I (3 + 0)

This course is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the school environment. It does not fulfill the prerequisite requirements

for any Spanish 2000-level course.

SPA 1007-3 Conversational Spanish for School Personnel II (3 + 0)

Prerequisite: SPA 1006

This course is a continuation of SPA 1006 and is designed for the student who wants to acquire a basic knowledge of conversational Spanish for the school environment. It does not

fulfill the prerequisite requirements for any Spanish 2000-level course.

SPA 1010-5 Elementary Spanish I (5 + 0)

This is a basic course in Spanish, with emphasis primarily on pronunciation, speaking and

understanding, supplemented by grammar, reading and writing.

SPA 1020-5 Elementary Spanish II (5 + 0) (This course is not approved for guaranteed transfer to other

Colorado colleges and universities)

Prerequisite: SPA 1010 or one or two years of high school Spanish

This course is the continuation of SPA 1010. (General Studies—Level I, Communications)

SPA 1800-1-15 International Spanish Year I (1-15+0)

This variable credit course is designed for first-year students learning Spanish in a study-

abroad setting. The course will recognize an approved, study-abroad, educational experience

in Spanish speaking, comprehension, reading and writing.

SPA 2110-3 Spanish Reading and Conversation I (3 + 0)

Prerequisites: SPA 1010 and SPA 1020

This course emphasizes reading and oral proficiency and continues the sequence of SPA 1010

and SPA 1020. Classes are taught mainly in Spanish.

SPA 2120-3 Spanish Reading and Conversation II (3 + 0)

Prerequisite: SPA 2110, or equivalent, or permission of instructor

This course is a continuation of SPA 2110. It continues to emphasize reading and oral profi-

ciency and is designed to afford the student the necessary practice to communicate with ease in Spanish. Emphasis lies on vocabulary building, reading of cultural material, and conversa-

tional skills. Classes are taught mainly in Spanish.

SPA 2310-3 Spanish Grammar and Composition I (3+0)

Prerequisite: SPA 2110 or two years of high school Spanish

This intermediate course reviews and strengthens knowledge of the structure of the Spanish

language as a basis for more advanced work in speaking, understanding, reading and writing.

SPA 2320-3 Spanish Grammar and Composition II (3 + 0)

Prerequisite: SPA 2310 or equivalent, or permission of instructor

This course is designed to widen and reinforce the different structures of the Spanish lan-

guage in order to strengthen the student's writing skills.

SPA 2800-1-15 International Spanish Year II (1-15+0)

Prerequisites: one year of college Spanish or equivalent

This variable credit course is designed to recognize second year study of Spanish language

and culture in an approved study-abroad setting.

SPA 3050-3

Cultural Crossroads: France, Germany, Spain (3 + 0) (FRE 3050, GER 3050, MDL 3050)

Prerequisite:

This course gives students the cultural background necessary to understand and appreciate those spiritual and intellectual developments that have given today's three European nations (representing our language disciplines) their characteristics. Main topics include the Indo-European language family, the cultural and technological development of Germanic and Romance-speaking countries, the causes for the rise and fall of these countries throughout the 2000 years under consideration, the role of women in politics and the arts, the development of differing social etiquette, reasons for mass emigrations, and contributions of immigrants to their new countries, and the effect that the European Union has on the educational social welfare of its member nations. Students can get credit for only one prefix.

SPA 3100-3 Spanish Terminology for the Bilingual Classroom (3 + 0)

two years of college Spanish, its equivalent, or permission of the instructor Prerequisite:

A practical course designed to help students with the Spanish structures and terminology

used in the different areas of instruction.

SPA 3110-3 Advanced Conversation (3 + 0)

Prerequisite: two years of college Spanish or equivalent, or permission of instructor

An advanced course to broaden and strengthen the student's conversational skills, emphasiz-

ing current topics in the Hispanic world.

SPA 3140-3 Advanced Composition (3 + 0)

Prerequisites: SPA 2310 and SPA 2320 or equivalent, or permission of instructor

This course is designed to reinforce and develop further student's abilities in composition tasks that reflect the kind of writing students are generally asked to perform as Spanish

majors. Classes are conducted in Spanish.

SPA 3150-3 Spanish Phonetics: Theory and Practice (3 + 0)

two years of college Spanish or equivalent, or permission of instructor Prerequisite:

This course in Spanish phonology is aimed at improving students' pronunciation and introducing them to the field of descriptive linguistics.

SPA 3200-3 Culture and Civilization of Spain (3 + 0)

two years of college Spanish or equivalent, or permission of instructor; and satisfaction of Level I General Studies course requirements Prerequisites:

This course is an advanced Spanish conversational approach to the understanding of the traditions and history of Spain, and the national character as expressed in everyday life. It is based on a reading-lecture discussion format. Oral presentations and a term paper are required. This class is conducted in Spanish. (General Studies—Level II, Arts and Letters)

SPA 3210-3 Spanish–American Culture and Civilization (3 + 0)

Prerequisites:

two years of college Spanish or equivalent, or permission of instructor; and satisfaction of

Level I General Studies course requirements

This course is an advanced Spanish conversational approach to the chief cultural characteristics of the Hispanic-American world. It is based on a reading/lecture/discussion format. Oral presentations and a research paper are required. Conducted in Spanish. (General Studies-Level II, Arts and Letters)

SPA 3220-3 Folklore and Culture of the Mexican Southwest (3 + 0)

Prerequisites: two years of college Spanish or equivalent, or permission of instructor; and satisfaction of

Level I General Studies course requirements

This course is designed to acquaint the students with the culture, folklore and civilization of the Mexican American in the Southwest. The introductory lectures will deal with the Spanish and Indian heritage. Main concentration will be on the culture and folklore of the people from the arrival of Juan de Onate to the present. The course is conducted entirely in Spanish. (General Studies—Level II, Arts and Letters)

SPA 3250-3 Introduction to Literary Studies in Spanish (3 + 0)

Prerequisite: SPA 2320 or equivalent, or permission of instructor

This course is designed to introduce the students to the study of literature in the Spanish language. Emphasis will be placed on reading and critical analysis of representative works, main

literary trends and terminology. Conducted in Spanish.

SPA 3400-3 Survey of Spanish Literature I (3 + 0)

Prerequisite: SPA 3250 or equivalent, or permission of instructor

A general survey of the literature of Spain from the Middle Ages through the romantic era. Reading of representative works, lecture on biography, criticism and recitation will be included Control of Spainish

included. Conducted in Spanish.

SPA 3410-3 Survey of Spanish Literature II (3 + 0)

Prerequisite: SPA 3250 or equivalent, or permission of instructor

This course presents Spanish literature since 1870, including post-romanticism, realism, naturalism, the generation of 1898, the genero chico and more recent works. Conducted in

Spanish.

SPA 3510-3 Survey of Latin American Literature (3 + 0)

Prerequisite: SPA 3250 or equivalent, or permission of instructor

This course is designed to introduce the student to the most important works in Latin American literature from the late fifteenth century to the late nineteenth century. Conducted in

Spanish.

SPA 3600-3 Latin American Cinema (2 + 2)

Prerequisite: SPA 2320 or LAS 2810 or permission of instructor

This 3000-level course, a survey of recent Latin American film, is interdisciplinary and cross-cultural, emphasizing the socio-economic and political issues (race, gender, sex, and identity issues) central to the development of Latin American Cinema. This course is suitable for non-speakers of Spanish and is designed to introduce students to the cinematic work of a number of Latin American film artists or movements by discussing them from a variety of perspectives (narrative, rhetoric, aesthetics, film language). This course is designed to heighten perceptual skills by viewing films and increase critical understanding of the ways films function as visual discourse. Students in the SPA major program at the time the course is taken will

complete all work in Spanish.

SPA 3650-3 Introduction to Spanish Translation I (3 + 0)

Prerequisite: SPA 3140 with a grade of at least a "B" or permission of instructor

This course is an introduction to the principal topics in the discipline of translation. The student will translate a variety of texts from Spanish to English and from English to Spanish, discuss and critique translations in class, examine various historical and theoretical concepts of translation, and analyze grammatical, lexical and cultural issues faced by translators. Stu-

dent is expected to be fluent in both Spanish and English.

SPA 3800-1-15 International Advanced Spanish (1-15 + 0)

Prerequisite: upper-division standing in Spanish or equivalent

This course is designed to recognize upper-division study in language, culture and literature in a study-abroad setting. This advanced study in Spanish uses a variety of methods and

includes reading, writing and discussion seminars in Spanish.

SPA 4010-3 Advanced Spanish Writing and Grammar I (3 + 0)

Prerequisite: SPA 3140 or equivalent, or permission of instructor

This course is designed to afford the student of Spanish an overall acquaintance with contemporary grammatical analysis and terminology, in order to promote and enhance the student's sensitivity regarding the syntactical structure of the Spanish oral and written modes of

expression. Classes are conducted in Spanish.

SPA 4020-3 Advanced Spanish Writing and Grammar II (3 + 0)

Prerequisite: SPA 4010 or equivalent, or permission of instructor

This course is an intensive study of Spanish idiomatic expressions and selected vocabulary to strengthen the student's language skills, with emphasis on written style and on the understanding of the Spanish syntax. The main purpose of this course is to enable the student to manipulate the target language with accuracy, elegance and assertiveness. Classes are con-

ducted in Spanish.

SPE 4050-3 Introduction to Translation II (3 + 0)

Prerequisite: SPA 3140 and SPA 3650 with grades of "B" or better

This course further explores the principal topics in the discipline of translation. Students will translate (Spanish to English and English to Spanish) challenging "real-life" texts from such diverse fields as law, medicine, marketing, human resources, literature and poetry. Class sessions will focus on discussion of assigned translations, examination of various historical and thoeretical concepts of translation, and analysis of grammatical, lexical, and cultural issues faced by translators. Students are expected to be fluent in both Spanish and English.

SPA 4110-3 **Contemporary Spanish Literature (3 + 0)**

Prerequisite:

This course involves reading and analysis, through discussion and writing, of representative works of contemporary Spanish literature. The course affords students an opportunity to explore changes in cultural development in Spain from the end of the Civil War until the present. This course is conducted in Spanish.

SPA 4120-3 Contemporary Latin-American Literature (3 + 0)

Prerequisite:

SPA 3510 or equivalent, or permission of instructor

This is a course in which the student will be critically reading and discussing the major works of contemporary Spanish American authors in order to appreciate their literary and cultural values and to participate in a meaningful language experience. Conducted in Spanish.

SPA 4130-3 **Contemporary Mexican Literature (3 + 0)**

Prerequisite:

SPA 3250 or equivalent, or permission of instructor

This course offers a panoramic view of Mexican literature. It will examine the articulation of diverse social and cultural questions, as well as the ways in which Mexican writers represent themselves and their cultural heritage through literary texts. The student will read and discuss representative works of 20th century Mexican writers. Conducted in Spanish.

SPA 4200-3 Spanish-American Essay: 19th and 20th Centuries (3 + 0)

Prerequisites:

SPA 3250 or permission of instructor

Presents, discusses and analyzes the most important literary work of representative nineteenth and twentieth centuries Spanish-American essayists. The course exposes the student to the thought and stylistic modes found in the intellectual production of the selected prominent figures to be studied. Conducted in Spanish. (Senior Experience)

SPA 4310-3

Prerequisites:

History of the Spanish Language (3+0) SPA 3140 and SPA 4010 or SPA 4020, satisfaction of all Level I and Level II General Studies

course requirements, and senior standing

An introductory course in Spanish philology aimed at improving students' knowledge of Spanish sounds, forms and word order, with the focus on how the Spanish language began and has changed through the centuries. (Senior Experience)

SPEECH COMMUNICATION

SPE 1010-3 **Public Speaking (3 + 0)** This course is not approved for guaranteed transfer to other Colo-

rado colleges and universities

minimum performance standard scores on the reading and writing preassessment placement tests Prerequisite:

> This course acquaints students with the basic theory of the art of public speaking and provides experience in the preparation and delivery of short talks. (General Studies-Level I,

Communications)

SPE 1500-3 Introduction to Communication Sciences (3 + 0)

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.

SPE 1610-3 American Sign Language I (3+0) (EDU 1610, MDL 1610)

Prerequisite:

minimum performance on the reading and writing preassessment placement test

This course provides students with a basic understanding of American Sign Language including conversational skills and linguistic structures. Students are also introduced to Deaf cul-

ture. Credit will only be granted for one prefix: SPE, EDU, or MDL.

SPE 1620-3 American Sign Language II (3 + 0) (EDU 1620 / MDL 1620) (This course is not approved for

guaranteed transfer to other Colorado colleges and universities)

SPE/MDL/EDU 1610 or permission of instructor Prerequisite:

This coure is a continuation of SPE 1610 emphazising expressive language as well as increasing competence with receptive language skills. The course continues to build vocabulary and familiarity with the complex grammar (morphology and syntax) of this visual language. The Deaf experience and culture is integrated throughout. Credit will be granted for only one prefix: SPE, MDL or EDU. (General Studies-Level I, Communications)

SPE 1700-3 Communication Theory (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

This course reviews the research, theoretical assumptions and model of the oral communication processes. It is designed to provide students with a broad understanding of the basis of oral communication as patterned human behavior.

SPE 1710-3 Interpersonal Communication (3 + 0)

minimum performance scores on the reading and writing preassessment placement tests Prerequisite:

This is a basic skill course in the art of communicating with people. This class provides students with both the exposure to theory and the opportunity to practice developing basic communication skills including listening, perceiving, asserting, nonverbal and verbal language sensitivity and problem-solving tactics. The purpose of this course is to increase student's skills and knowledge in interpersonal communication theory and concepts. (General

Studies-Level I, Communications)

SPE 1730-3 Listening and Interviewing Communication Skills (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

This course is designed to teach students two associated communication skills: listening and interpersonal interviewing. Both content (informational) and empathetic (feeling) listening skills will be emphasized. Seven situational types of interviews will be explored in the course

using listening techniques as the primary communication skill.

Discussion Methods (3 + 0) SPE 2110-3

Prerequisite: SPE 1010 or permission of instructor

This performance course deals largely with the processes of decision-making in small groups and conferences: research and investigation, analysis of social problems, use of evidence and

argument and social interaction among participants.

SPE 2160-3 Organizational Communication Theory (3 + 0)

SPE 1010 and SPE 1700 or permission of the instructor Prerequisites:

This course is designed to acquaint students with relevant and current theoretical models of organizational communication systems and cultures. The course materials include formal and informal structures, group communication processes, external organizational communi-

cation systems, informational effectiveness and ethical considerations.

SPE 2400-3 Introduction to Radio and Television Broadcasting (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

This course focuses on the evolution of broadcasting, its organization, its function, the per-

sonnel involved, and the effect broadcasting has on its audience.

SPE 2530-3 Speech and Hearing Science (2.5 + 1)

Prerequisite: SPE 1010 or permission of instructor

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.

SPE 2710-3 Team and Group Communication (3 + 0)

SPE 1010 or permission of instructor Prerequisite:

This course is designed to teach students the dynamics of group process and the special skills

required to communicate successfully with many types of difficult group members.

SPE 2720-3 Nonverbal Communication (3 + 0)

Prerequisites: SPE 1010 and SPE 1700

Designed to explore the nature of the so-called "silent language" of the human communication process, this course focuses on the classes of nonverbal communication, their impact on

human perception, patterned behavior in groups, organizational systems and cultures.

SPE 2730-3 Communication and Conflict (3 + 0)

Prerequisite: SPE 1710 or permission of instructor

This course develops strategies for managing conflict dynamics in communication interactions at work, home and school. Effort is made to pinpoint individual communication con-

flict styles and to assess their effectiveness in conflict interaction.

SPE 2770-3 Gender and Communication (3 + 0) (WMS 2770)

Prerequisites: SPE 1710 or permission of instructor; ENG 1010 and satisfaction of Level I Communication

requirement

This course is designed to expand students' abilities to inventory their own and others' culturally derived gendered communication patterns; analyze those patterns; contrast their own resulting functional and dysfunctional gendered behaviors; relate those behaviors and outcomes to their personal, social, community, political, cultural, economic, work and professional lifestyles; and formulate and engage in new behaviors outside the academic community based on increased gendered communication awareness (General Studies - Level II, Arts and Letters).

SPE 2890-3 Language Acquisition (3 + 0)

Prerequisites:

ENG 2010 or SPE 1500 or PSY 1800; or permission of instructor 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.

SPE 3010-3 Advanced Public Speaking (3 + 0)

SPE 1010 and SPE 2110 or permission of instructor Prerequisites:

Preparation, presentation and appraisal of speeches on contemporary subjects. Advanced inquiry into rhetorical analysis, the intensification of ideas and style, with emphasis upon persuasive speaking. Attention will be given to specialized forms of public address.

SPE 3050-1 Intercollegiate Forensics (0 + 2)

Prerequisite: SPE 1010 or permission of instructor

A course for those students participating extensively in intercollegiate speech activities. A maximum of four credits in this course may be applied toward a degree.

SPE 3080-3

Great American Speakers (3+0) SPE 1010 and satisfaction of Level I General Studies course requirements Prerequisites:

This course critically examines the primary theses developed in selected major American speeches. This critical analysis includes an examination of the rhetorical skills of the speaker based on the persuasive models of Aristotle, Burke and Griffen and more. Estimates of the influence of such great speeches on public policy will be surveyed as a measurement of the success of such oral discourse. (General Studies-Level II, Arts and Letters)

SPE 3090-3 Argumentation and Advocacy (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

Acquaints the student with the complexity of social problems, methods of research, methods of logical analysis and development, construction of briefs and techniques of refutation. Includes practice in preparation and oral analysis of selected arguments.

SPE 3100-3 Business and Professional Speaking (3+0)

Prerequisite: SPE 1010 or permission of instructor

This course focuses on the processes involved in effective speaking in business and industry with emphasis on preparing and delivering presentations to organizational audiences including the use of audio-visual materials as they relate to the communication process in organizations at the interpersonal level. Students will polish communication skills in preparation for some of the unique speaking situations found in modern organizations.

SPE 3110-3 Organizational Leadership (3 + 0)

Prerequisites: SPE 1010 and either SPE 2110 or SPE 2710

This course is designed to acquaint students with the major theories of organizational leadership and the functional dimensions of leadership strategy in specific organizational systems.

SPE 3130-3 Conference Leadership (3 + 0)

SPE 1010 and SPE 3110, or permission of instructor Prerequisites:

> This course provides students with knowledge of the theories of group task and process behaviors and the practical application of that theory in the actual production of a conference. The course focuses on the motivation of volunteers and the appropriate styles of leadership when authority is not granted to the conference director.

SPE 3160-3 Communication in Politics (3 + 0)

Prerequisites: SPE 1010 or permission of the instructor

This course acquaints students with the complexities of communication issues and strategies used in and by a variety of governmental bodies. This course emphasizes communication patterns in government institutions, the role and strategies of public influence and change on policy creation, the nature and ethics of campaign strategies and propaganda tactics, the responsibility of media in public decision-making, and the impact of communication leadership and group dynamics on the resolution of political and social issues.

SPE 3170-3 Interpersonal Negotiation (3 + 0)

Prerequisites: SPE 1700 and either SPE 1710 or SPE 2710

This course is designed to teach students the theory and specific negotiation skills needed for resolving interpersonal group and organizational conflict. These skills include identification of conflict issues, fractionating of issues, positioning methods, questioning tactics, measuring negotiated consequences, identifying a negotiated style, managing difficult people, mediating theory and tactics, third-party interventions and negotiating frames. Both lecture/discussion and simulated case studies are used to illustrate negotiation principles.

SPE 3430-3 Radio-Television Announcing (3 + 0)
Prerequisites: SPE 2400 or permission of instructor

This is an advanced course in "on air" operations designed to meet the specific needs of the broadcaster and the radio-television-film announcer. Instruction is designed to develop pleasing and persuasive verbal-vocal-nonverbal communication as a means of improving a variety of presentations. Special emphasis will be placed on standard American usage of

speech and language.

SPE 3440-3 Television Production (3 + 0)

Prerequisite: SPE 2400 or permission of instructor

This course is an introduction to television production, operation of broadcast studio equipment, vocabulary, and experience in direction of multi-camera productions. Specific attention is focused on pre-production, including identification of audience by age, gender, and culture. Students will participate in production activities and procedures on a variety of projects.

SPE 3450-3 Broadcast Journalism: Radio (3 + 0)

Prerequisites: JRN 2100 or permission of instructor
This course is an introduction to radio news writing. Students learn how broadcast news copy

differs from print journalism. It involves learning the techniques of writing in the broadcast

style used in newsrooms.

SPE 3460-3 Audio Production (1 + 4)

Prerequisite: SPE 2400 or permission of instructor

This course is a hands-on practical guide for beginning and intermediate recording engineers, producers, musicians, and audio enthusiasts offering experiences in a variety of recording situations. Students will learn how to judge recordings and to use the equipment available

to improve them.

SPE 3470-3 Evolution of Cinematics as Art (2 + 2)

Prerequisite: SPE 2400 or permission of instructor

A course designed to explore the development of selected historical, technical and aesthetic elements of filmic expression from the point of view of the creative and perceptual process emphasizing the history of the motion picture as presented through the films and ideas of

several important cinematographers.

SPE 3480-3 Workshop in Radio Production (1 + 4)

Prerequisites: SPE 2400 and SPE 3430, or six hours of equivalent broadcasting courses and/or experience, or

permission of the instructor

This course provides students with an opportunity to produce radio programs for audiences

for use on commercial and/or public radio.

SPE 3511-3 Anatomy and Physiology of Speech (2.5 + 1.5) (BIO 3511)

Prerequisite: BIO 2310 and SPE 2530; or permission of instructor

This course provides students with 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. It includes lecture and laboratory components and involves dissection. Credit will be granted for only one prefix: SPE or BIO.

SPE 3540-3 Phonetics and Phonological Awareness (3 + 0)

Pre/Corequisite: SPE 2

Students will gain an understanding of the science of speech sounds and utilize the International Phonetic Alphabet in transcribing spoken language. They will learn how the ability to talk about, to reflect, and to manipulate the sounds of speech is associated with reading.

SPE 3580-3 Speech, Sound and Fluency Disorders (3 + 0)

Prerequisites: SPE 2890 Pre/Corequisite: SPE 3540

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.

SPE 3590-3 Classroom Intervention for Communication Disorders (3 + 0)

Prerequisites:

SPE 2890 and one of the following: (SPE 1500 and SED 3600) or (SPE 2530 and SPE 3540) This course allows students to explore how speech and language disorders/differences and hearing loss affect school-age children. Students learn identification, assessment, and intervention methods designed to help children and adolescents with communication disorders and differences. Students observe children with communication disorders in school settings.

SPE 3600-3 Audiology I (3 + 0)

Pre/Corequisite:

SPE 2530

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. Students are also introduced to the vestibular system.

SPE 3610-2 Audiology II (2 + 0)

Prerequisites:

SPE 3600

This course focuses on advanced anatomy of the auditory and vestibular systems, procedures to assess functioning of the auditory and vestibular systems, and prevention of primary and secondary disorders relative to hearing loss in the newborn nursery, schools, and industry. This course is recommended for all speech, language, hearing sciences (SLHS) students applying to graduate school.

SPE 3620-3 Aural Rehabilitation (3 + 0)

Prerequisites:

SPE 2890 and SPE 3600

This course considers the responsibilities of interventionists for children and adults with hearing loss. Students learn about room acoustics, amplification, cochlear implants, counseling, and speech and language therapy as well as individual variables that impact intervention outcomes.

SPE 3740-3 Psychology of Communication (3 + 0)

Prerequisite:

SPE 1010 and satisfaction of all Level I General Studies course requirements; or permission of

instructor

This course critically examines the psychological factors underlying speech comprehension, the speaker's adjustment to an audience, the listener's sets and responses, and the attitudes, beliefs and predispositions of hearers toward human communication. This is not a psychology course. (General Studies—Level II, Arts and Letters)

SPE 3760-3 Cultural Influences on Communication (3 + 0)

Prerequisites:

SPE 1010 and satisfaction of Level I General Studies course requirements as well as one of the following: SPE 1710, SPE 2710, or SPE 2720

This course examines the relationship between communication and cultural identity (histories, values, beliefs, traditions, and contributions). The ultimate goal of the course is to broaden students' perspectives of the power of communication to shape our lived experience and to expand students' capacities to adapt ethically to a changing and diverse world. Students will explore verbal and non-verbal differences and similarities across cultures and critique the role of ethnocentrism, bias, prejudice, and discrimination. Particular emphasis will be given to protected classes and co-cultures within the larger U.S. culture. (General Studies - Level II, Arts and Letters, Multicultural)

SPE 3770-3 Family Communication (3 + 0)

Prerequisite:

SPE 1710 or SPE 2710

This course is designed to assist students to better understand and improve interpersonal communication processes in families, including dual-career communication problems, personality patterns, family group roles and their impact on interaction, verbal and nonverbal messages in family contexts and managing family interpersonal conflict and change.

SPE 3981-3 Cooperative Education: Broadcast Journalism (1 + 9)

Prerequisite:

This course gives students an internship experience working as a broadcast journalist at a television station, radio station or another broadcast media outlet where they are able to use

the skills learned in the classroom in a supervised, professional setting.

SPE 3982-3-9 Cooperative Education: Broadcast Performance (1 + 9-27)

SPE 2400 and SPE 3430 Prerequisites:

This course gives students an internship experience working as talent at a television station, radio station or other broadcast media outlet where they are able to use the skills learned in

the classroom in a supervised, professional setting.

SPE 3983-3-9 Cooperative Education: Broadcast Production (1 + 9-27)

Prerequisites: SPE 2400, SPE 3440 and SPE 3480

This course gives students an internship experience working in production at a television station, radio station or other broadcast media outlet where they are able to use the skills

learned in the classroom in a supervised, professional setting.

SPE 4050-2 Advanced Intercollegiate Forensics (0 + 4)

Prerequisite: permission of instructor

For students participating extensively in competitive intercollegiate speech activities. A maxi-

mum of eight hours credit may be applied toward a degree.

Rhetorical Criticism of Public Address (3+0) SPE 4080-3

Prerequisites: SPE 1010 and junior/senior standing, or permission of instructor

This course focuses on the historical and critical methodologies for analyzing rhetorical efforts, both from the points of view of an intellectual discipline and as a practical art in a

democratic society.

SPE 4090-3 Classical Rhetoric (3 + 0)

SPE 1010, and satisfaction of all Level I and Level II General Studies course requirements, and Prerequisites:

senior standing; or permission of instructor

This course acquaints students with the classical traditions of rhetorical theory including the presophists, sophists, Aristotle, Plato, Isocrates, Cicero, Quintilian, etc. Standards of "ethical persuasion" and the responsibilities of rhetorical persuasion are examined in-depth. (Senior

Experience)

SPE 4100-3 Techniques of Persuasion (3 + 0)

Prerequisite: SPE 3090 or permission of instructor

A critical investigation of the factors that influence individuals and groups through the media of persuasive rhetorical campaigns. Course involves specific investigation and analysis of twentieth-century persuasive campaigns. Students will have opportunities to develop persua-

sive campaigns in various rhetorical areas.

SPE 4120-3 Freedom of Speech (3 + 0)

SPE 1010, or permission of instructor, satisfaction of all Level I and Level II General Studies Prerequisites:

course requirements, and senior standing

This course is a study of the historical and social influences with inquiry into the legacy of our inherited rights to free speech. This course examines and refines the First Amendment's clause on freedom of speech and the press, threats to this freedom and special inquiry into

contemporary issues and cases. (Senior Experience)

SPE 4160-3 Advanced Organizational Communication (3 + 0)

Prerequisites:

SPE 2160 and SPE 3170 or permission of instructor This course acquaints students with organizational communication structural designs, as well as methods/models for analyzing/auditing the effectiveness of such organizational communication systems. The course also addresses implementing organizational communication

change through communication processes.

SPE 4440-3 Advanced Television Production (3 + 0)

Prerequisite: SPE 3440

This course is an advanced course in television production with projects in both the studio and the field. Specific attention is focused on the production process. Students will partici-

pate in a variety of projects.

SPE 4450-3 Broadcast Journalism: Television (3 + 0)

Prerequisite:

This course is an introduction to television news writing. Students learn how to write for a visual medium, including newscast writing, and writing for visuals and video.

SPE 4470-3 TV Criticism: Production and Content (3 + 0)

Prerequisite: SPE 3440 or permission of instructor

This course analyzes contemporary television programming for aesthetics and effectiveness. All production elements and the content of programs are critiqued to create a more discern-

ing audience and/or program creator.

SPE 4480-3 Seminar Practicum in Broadcasting (1+4)

SPE 3480 or permission of instructor Prerequisite:

This is an advanced course in radio production that offers an opportunity to supervise a variety of productions as a producer/director and to evaluate the production of radio programs including soft news, commercials, and public service announcements. Open to junior- and senior-level broadcasting students, this course may be repeated for a maximum of nine credit hours that may be applied toward their degree.

SPE 4500-3 Principles of Assessment and Intervention (2 + 2)

SPE 2890 and one of the following courses (SPE 3590, SPE 4510, SPE 3620 or SPE 3580) Prerequisites:

This course examines professional issues and assessment/intervention principles and practices in speech-language pathology and audiology. The field-based experience allows students to implement standards-based instruction for children with communication disorders in educational settings and/or observe assessment/intervention methods in clinical settings.

(Senior Experience)

SPE 4510-3 Language Disorders (3 + 0)

SPE 2890 and (SPE 2530 or SPE 1500); or permission of instructor Prerequisites:

This course examines language disorders and the neurological, cognitive, environmental and sociocultural actors that contribute to them. Students are introduced to assessment and intervention strategies designed to enhance language/communication development, with particular emphasis on child language disorders and their effects. Field based observations

will be required.

SPE 4550-4 Speech-Language Pathology Assistant Methods (1 + 9)

SPE 2890, SPE 2530, SPE 3540 and SPE 3600; or permission of instructor Prerequisites: Pre/Corequisite:

SPE 3500, SPE 3580, SPE 3620, SPE 4500, SPE 4510; or permission of instructor This course allows students with an undergraduate major or equivalent coursework in

speech-language-hearing sciences (Option A) to gain the competencies required for employment as a speech-language pathology assistant (SLPA) in schools. The course is composed of a one-credit seminar and three-credit public school SLPA internship.

SPE 4551-3 Early Childhood Communication Assessment (2.5 + 1)

SPE 2890 and (SPE 1500 or SPE 3600); or permission of istructor Prerequisites:

SPE 4500 or permission of instructor Pre/Corequisite:

This course expands students' knowledge and skills regarding the purposes and principles of diagnostic assessment in communication disorders. Students will learn about different types of tools and methods to assess communicative competence in toddlers and preschool-aged children. Clinical interviewing, test administration, behavior observation and report-writing will be addressed. Students will engage in field observations and assess the speech-language development and hearing status of a child between one and five years of age.

SPE 4552-1 Early Childhood Communication Intervention (0.5 + 1)

Prerequisite: SPE 2890 and (SPE 1500 or SPE 3600)

SPE 4500 and one of the following: SPE 3580 or SPE 3590 or SPE 4510; or permission of Corequisite:

instructor

This course introduces the student to the principles of intervention planning and services for the preschool child with communication disorders and/or delays. Students will analyze diagnostic data, create golas and objectives and implement intervention using direct and indirect service delivery models. Students will gain experience communicating with parents and professionals in oral and written formats. This course may be repeated for up to 3 credits.

SPE 4700-3 Communication and the Trainer (3 + 0)

SPE 1010, SPE 1700, SPE 1710, SPE 2710 or permission of instructor Prerequisites:

This course is designed to teach students how to translate their liberal arts background into on-the-job communication training programs using interpersonal and group dynamics skills. Actual demonstrations via video will be used, allowing students the opportunity to practice and evaluate their program design and training communication style in front of real audiences.

SPE 4760-3 Communication and the Elderly (3 + 0)

Prerequisites: SPE 1700 and SPE 1710

This course is designed to investigate the particular communication patterns and problems of the aged. It focuses on culturally communicated attitudes toward elderly persons via media, marketing, and institutions, as well as specific communication issues of the aged such as the communication of intimacy, friendship, control, interaction in work environments, home

life, retirement and death.

SPE 4790-3 Communication Theory Building and Research Methodology (3 + 0)

Prerequisite: Corequisite: SPE 1700 or SPE 3740; and SPE 2160 or SPE 4160; or permission of instructor

This course is designed to provide students with the major trends in communication research including the most frequently used methodologies for conducting research. Students will construct research questions and generate hypotheses for conducting research. They will investigate through literature searches current research conducted on specific topics and learn how to write and report that research using appropriate research tools (technology) and acceptable academic documentation. The course also focuses on the processes for developing a research proposal using students' understanding of generating social science, communication or organizational communication theories. (Senior Experience)

SURVEYING AND MAPPING

SUR 1510-4

Surveying I (2+4) CET 1100 and high school or college trigonometry or MTH 1400 with grades of "C" or better, Prerequisite:

or permission of instructor

This is an introductory course in elementary surveying. Students acquire a knowledge of the theory of measurements, methods of collecting and recording data, reduction of observations of angles, directions, distances and differences in elevation; the computation and adjustment of traverses; the use of data collectors and interfacing with CAD software; construction stakeout employing coordinate geometry and CAD output; and the methods of computing coordinate geometry and areas. Field work includes use of transits, total stations, electronic dis-

tance meters, surveyors' tapes, differential levels and data collectors.

SUR 1520-4 Construction Surveying (2 + 4)

high school or college trigonometry or MTH 1400, CET 1100, all with a grade of "C" or better, Prerequisite:

or permission of instructor

This is an introductory course designed for the engineering technology student. The course covers surveying instrumentation, utilization of maps and plans, understanding and using working drawings, computing coordinates, areas, earthwork quantities (volumes), monitoring construction for line and grade, performing as-constructed surveys and mapping and introducing boundary and legal surveying.

SUR 2520-4 Surveying II (2 + 4)

MTH 1410 and SUR 1510 with grades of "C" or better, or permission of instructor Prerequisite:

This course is designed to cover the introduction to control surveying, state plane coordinate systems, construction surveying, legal and boundary surveying and large scale topographic mapping for engineering and architectural projects. The student is introduced to optical micrometer and electronic theodolites, precise levels, and electronic distancers. Laboratory assignments will cover astronomic azimuth observations, circular and parabolic curves, earthwork surveys, control surveying and topographic mapping.

SUR 2530-4 Route Surveying (2 + 4) (CET 2530)

Prerequisites: SUR 1520 for CET majors, SUR 2520 and SUR 2620 for SUR majors, all with a grade of "C"

or better, or permission of instructor

This course is designed to expand the concepts on circular and parabolic curves and earthwork introduced in SUR 2520. Included is the mathematics of spirals; unequal tangent vertical curves, mass diagram of earthwork quantities; alignment profile and slope staking; large scale site mapping; alignment and design; and other surveying techniques required for highways, pipelines, tunnels, transmission lines, water lines, sewers and canals, etc. This course will introduce terrain modeling for site development and environmental concerns.

SUR 2540-3 Fundamentals of GPS Surveying (2 + 2)

MTH 1400 and SUR 1510 with grades of "C" or better, or permission of instructor Prerequisites:

This course introduces the student to the technology of the Global Positioning System (GPS). The mechanics and elementary mathematics of GPS point positioning technology are presented. The laboratory sessions will introduce the operational concepts of planning, reconnaissance and data collection. Post mission processing and computer software for static, rapid static and real time kinematic surveying will be discussed.

SUR 2550-3 Surveying Computations (3 + 0)

SUR 2520 with a grade of "C" or better, or permission of instructor Prerequisite:

This is an introductory course on converting survey field observations/data into a form suitable to the end user. Students apply principles and precepts learned in courses of mathematics and surveying to surveying problems, develop analysis techniques and perform those computations required for plane surveying problems encountered by the surveyor, land developer and civil engineer. Traverse computations, subdivision computations, route surveying computations, etc., are addressed.

SUR 2620-3

Survey Drafting - CAD (0 + 6) MTH 1400 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is a study of map symbols, contours, sources for map data and methods used in map plotting. Emphasis is placed on utilizing Computer Aided Drafting (CAD) tools. The subjects include importing and exporting files from other sources, creation of map symbol libraries, menus and table layout, use of multiple layers and templates, digitizing, maintaining coordinate bases and orientation, use of map projections and datums and use of GIS/LIS files.

SUR 3100-3 Survey Data Adjustment and Analysis I (3 + 0)

MTH 2140, MTH 2410, MTH 3210, PHY 2331, PHY 2341 and SUR 2550 with grades of "C" Prerequisites:

or better, or permission of instructor

This course provides a foundation in the basic principles of computational methods used to adjust and analyze survey observations employing statistical principles and least squares theory. The problems include adjustment of triangulation, traverses, trilateration and vertical networks by condition and/or observation equations.

SUR 3120-3 Survey Data Adjustment and Analysis II (3 + 0)

SUR 3100 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is a continuation of SUR 3100 and is designed to provide a foundation in the principles of design and adjustment of geodetic networks. The concepts of design, geometry, preanalysis, redundancy, adjustment, confidence regions, test on variance factor, goodness of fit test, detection of outliers and position accuracy standards are presented. Advanced adjustment techniques for special geodetic problems are presented.

Astronomy for Surveyors (2+0)SUR 3150-2

Prerequisite: SUR 2520 with a grade of "C" or better, or permission of instructor

This is an introductory course on applying astronomical observations to surveying and mapping projects. Students acquire knowledge about positional determination by astronomical observations and determining the direction (azimuth, bearing) of lines on the earth's surface from astronomic observations. The students compute the azimuth of a line from actual survey observations.

SUR 3200-3 Government Records and Regulations (2 + 2)

Prerequisite:

junior or senior standing and permission of instructor
The course introduces the subject of sources of official and legal records pertaining to land surveying, boundary surveying and land mapping projects. The student will visit the offices of the Colorado State Board of Registration for Professional Engineers and Professional Land Surveyors, county clerk and recorder, assessor, city or county planning department, zoning department, county surveyor, etc., to assess current regulations, sources of records and record keeping. The student will visit a title abstract company to learn about land title searches for preparing title commitments. The student will write assessments and proposals, with justification and cost recovery analysis, for improving the offices visited.

SUR 3210-2 Case Studies and Legal Research (2 + 0)

SUR 3200 with a grade of "C" or better, or permission of instructor Prerequisite:

This course introduces the student to the subject of legal research in a law library. The student performs legal research on topics at the local law library and in computer data bases. Case studies will be reviewed and used as the research projects. Students will write reports based on their research.

SUR 3220-2 Real Property Descriptions (2+0)

SUR 3540 with a grade of "C" or better, or permission of instructor Prerequisite:

This course addresses writing real property legal descriptions for deeds, easements and rightsof-way. Emphasis is placed on the structure and order of the elements in the description and on avoiding the common mistakes of language, construction and terminology in order to avoid ambiguities in the intent of the instrument. A study of the interpretation of the rules to

deal with conflicts and ambiguities in instruments is presented.

SUR 3300-3 Photogrammetry (3 + 0)

PHY 2331 and SUR 2550 with grades of "C" or better, or permission of instructor Prerequisites:

This course introduces the science of photogrammetry. The geometry of the photographic camera, vertical photography, aerial mapping camera, flight planning, project planning, supporting field surveys and field classification and targeting are emphasized. Photogrammetric plotters and comparators are discussed. An introduction to digital image scanning and GPS synchronization is presented. The application of photogrammetry to engineering and sur-

veying mapping programs is discussed.

GIS/LIS Data Base Design (2 + 2) SUR 3310-3 Prerequisites:

SUR 2520 and GIS 2250 with grades of "C" or better, or permission of instructor The course addresses the design and creation of a Cadastral based Geographic and Land Information System (GIS/LIS) as used by local governments and the relationship of those systems to the practice of surveying. Emphasis will be on the technical requirements and structure needed for an effective Cadastral based GIS/LIS. In addition, the legal issues, common policies, local standards and national standards that are important to the professional

surveyor who is involved in GIS/LIS will be covered.

SUR 3400-2 Professional Ethics and Critical Reasoning (2 + 0)

Prerequisite: junior or senior standing and permission of instructor

This course addresses professional codes of ethics and professional practice. These codes are reviewed and evaluated through classroom discussion. Students will prepare and deliver oral presentations on selected topics. The student will prepare justifications and arguments, ranking the discussion points/issues and discriminating between options and evidence based on

the ranking.

SUR 3540-3 Boundary Law I (3+0)

SUR 2520 with a grade of "C" or better, or permission of instructor Prerequisite:

This course introduces the concepts of boundary control and legal principles. Subjects addressed include proportionate measurement, rights in land, junior/senior title rights, retracement of original surveys, deed first/survey first, common and case law, ranking/prioritizing evidence, controlling monuments and corners, errors in legal descriptions and plats

and case studies.

SUR 3660-3 Land Information Systems (3 + 0)

SUR 2520 with a grade of "C" or better, or permission of instructor Prerequisite:

This course is designed to provide instruction in the fundamentals of the procedures and standards for a multipurpose cadastre. It includes the completion of a practical project using

state-of-the-art computer-aided drafting.

SUR 3700-3 Geodesy I (3+0)

SUR 2550, PHY 2311, PHY 2321, PHY 2331 and PHY 2341 with grades of "C" or better, or Prerequisites:

permission of instructor
This is an introduction into the science of geodesy. The course presents an overview into the theory of surveying in which the size and shape of the earth must be addressed. The history of geodesy and the classical survey procedures to determine latitude, longitude, elevation and the earth's gravity field are presented. The underlying theory of instrumentation and the

application of physical theory are discussed.

SUR 3800-3

Public Land Survey System (3 + 0) SUR 2520 with a grade of "C" or better, or permission of instructor Prerequisite:

This course describes the survey procedures contained in the current Manual of Surveying for the Public Lands of the United States (1973). The history, design and planning of the rectangular survey system, original surveys, resurveys, independent and dependent surveys, protection of bona-fide rights, mineral surveys, special surveys and riparian rights are addressed. The

importance of the official plats and field notes are presented.

SUR 4100-3

Land and Survey History (3 + 0)

Prerequisite: s

senior standing or permission of instructor

This course is a study of the history of surveying and mapping professions in the United States. The course will cover the early colonial surveys, the development of the U.S. Public Land survey system, the great exploratory surveys of the nineteenth century, the grants for railroads, wagon roads, irrigation canals, etc. The lectures will include the introduction of many of the personnel involved and the development of technology. A term paper or research project is required and will be presented at an approved technical meeting or published in a professional journal.

SUR 4110-4

Advanced Cadastral Surveying (3 + 2)

Prerequisites: SU

SUR 3210, SUR 3800 and SUR 4100 with grades of "C" or better, or permission of the instructor This course is a continuation of SUR 2800. The student will be assigned to solve professional problems encountered in Cadastral (Public Domain) surveying. The topics include dependent and independent resurveys, mineral surveys, junior/senior rights, land area relationships, multiple corners, the three mile method, grant boundaries, segregation surveys, hiatus and overlaps, partitioning of riparian rights and the subdivision into aliquot parts.

SUR 4120-2

Review of State Law (2+0)

Prerequisite:

senior standing and permission of instructor

This course is an introduction and discussion of the state laws in Colorado and the neighboring states pertaining to the practice of surveying. The topics include the right-of-entry, subdivision regulations, filing/recording corner records, records of survey and affidavits, professional conduct, authority of the state board of registration, and interaction with various state regulatory agencies.

SUR 4300-3

Geodesy II (3 + 0)

Prerequisites:

senior standing, SÚR 3100 and SUR 3700 with grades of "C" or better, or permission of instructor This course is a continuation of SUR 3700 (Geodesy I). The subjects discussed are the earth's motion and reference coordinate system, earth's deformation in time and tectonics, geodetic positional astronomy, earth's gravity field, crustal motions, and precise terrestrial geodetic measurements. The student will prepare a term paper on a geodetic topic approved by the instructor. (Senior Experience)

SUR 4310-3

Survey Data Management (2 + 2)

Prerequisites:

SUR 3100 and SUR 3700 with grades of "C" or better, or permission of instructor

The topics covered in this course include data collection techniques, computations, data standards and error depiction of survey data for Land Information Systems (LIS). Computer software is developed for the purpose of managing record survey data in networks utilizing least squares adjustments. The student will learn to identify the data that are required by these software systems and how to manage the collection, depiction and reliability of the data base. Each student will prepare a term paper investigating an application for the use and management of land and survey data.

SUR 4320-4

Geodetic Survey Methods (2 + 4)

Prerequisites:

SUR 2530 and SUR 3700 with grades of "C" or better, or permission of instructor This course is designed to apply precise surveying field procedures to surveying problems encountered in route surveying and geodesy. The students will employ precise surveying instrumentation and methods. The problems include surveys for geodetic, hydrographic and mine surveys. Global positioning satellites, gyrotheodolites and inertial positioning systems are introduced and discussed. Applications include municipal and regional geodetic networks supporting GIS/LIS, rapid transit systems, highways and streets, utility corridors, dam monitoring and industrial applications. The student will integrate the planning, implementation, data reduction, analysis and publication of the results for the survey assignments.

SUR 4400-3

Management of Land and Survey Themes in a Cadastral Based GIS/LIS (2 + 2)

Prerequisites:

SUR 3310, SUR 4310, GIS 2250 and GIS 4850 with grades of "C" or better, or permission of instructor

This course is designed to be a "capstone" experience for the surveying student who has elected GIS/LIS as an area of emphasis. It is intended to give the advanced surveying student hands-on experience in dealing with real world GIS/LIS data sets. Emphasis will be on the acquisition and use of a variety of spatial data sets and the application of surveying techniques to quantify and, when appropriate, to improve a variety of spatial data that are available in different coordinate systems and map projections and the techniques the practicing surveyor will need to know in order to appropriately integrate these data.

SUR 4500-3

Construction Measurements (2 + 2)

Prerequisites:

SUR 2550 and SUR 2620 with grades of "C" or better, or permission of instructor

This course introduces the student to the methods of translating engineering and archi-

tectural plans into field surveys for construction work and post-construction mapping for payments. The topics include engineering measurement tolerances, vertical and horizontal differential tolerances, terrestrial photography and control, deformation studies and analysis, safety and hazardous waste environment.

Map Projections and Coordinate Systems (3 + 0) SUR 4510-3

Prerequisite: senior standing; SUR 3700 with a grade of "C" or better, or permission of instructor

This is an in-depth course addressing the popular conformal map projections employed in surveying and mapping programs. The theories for the Lambert conformal conic, Mercator, transverse Mercator, oblique Mercator and stereographic, and Albers equal area projections are presented. Designing the projection system, transformation between plane coordinates and geodetic positions and the conversion of survey data to map projection data are emphasized. The use of local conformal map projections will be presented.

SUR 4530-3 Site Planning (3 + 0)

senior standing; SÚR 2530 and SUR 2550 with grades of "C" or better, or permission of Prerequisite: instructor

The course introduces the activities and functions performed by design professionals (surveyors, engineers, architects, landscape architects, and planners) in land development. The interaction of land use planning, environmental evaluation and zoning are discussed. The federal, state, regional and local land use controls are presented. Guest speakers present lectures on their activities and responsibilities in site planning. Emphasis is placed on the role of geographic information systems and land information systems in the site planning process. (Senior Experience)

Boundary Law II (3 + 0) SUR 4540-3

Prerequisite:

senior standing and SUR 3540 with a grade of 'C' or better, or permission of instructor This course is a continuation of SUR 3540 and addresses, in detail, the subjects of evidence and procedures for determining real property boundaries. Statutes and case law; conflicting evidence; proper methods and procedures for collecting evidence; riparian rights; surface and subsurface rights; and eminent domain are studied. Boundary agreements and legal instruments prepared by the land surveyor are introduced. The role of the land surveyor as an expert witness is presented. (Senior Experience)

*contact the Industrial Design Department at 303-556-2916

SOCIAL WORK

Introduction to Social Welfare and Social Work (3 + 0)SWK 1010-3

Prerequisite: satisfaction of General Studies-Level I requirements

This course presents historical and philosophical perspectives of social work generalist practice and social welfare programs in response to human need and societal problems. An overview is provided of the social worker's role in the fields of health, mental health, family and child welfare, corrections, and on behalf of special groups such as ethnic minorities, the aged, the developmentally delayed, women and children, and gays and lesbians. (General Studies Course—Level II, Social Sciences)

SWK 1020-1 Introduction to Agency Experience (1 + 0)

Prerequisite: SWK 1010 or permission of the instructor

This course introduces students to social work roles in social service agencies. Concurrent

volunteer experience in social work agency is required.

SWK 2100-3 Introduction to Family Social Work (3 + 0)

This course will examine family systems theory and family life developmental models. Traditional and nontraditional families will be discussed from an ecological perspective. Introduction to the role and work of the family social worker at the beginning and generalist practice levels will be examined. Stages of family social work will be presented, including culturally and gender-sensitive practice, family-centered practice, home-based support and crisis intervention.

SWK 2150-3 Social Work: The Helping Process (3 + 0)

This course will discuss social work as a helping process from a beginning social work perspective. The basic components of social work with diverse individuals and groups will be examined, including observation, assessment, communication and intervention. Avoiding professional burnout will be discussed.

SWK 2160-1 Record Keeping in Public and Private Agencies (1 + 0)

This course is designed to assist beginning and generalist social workers and other professionals with client and agency record keeping. A full range of records used by social workers and other agency staff will be presented. A balanced view of accountability, efficiency and privacy will be illustrated through numerous examples and writing exercises.

SWK 3000-1 Applied Legal Issues in Social Work (1+0)

This course will examine the legal basis for social work practice. It will apply specific laws that govern social work practice in a variety of service delivery areas.

SWK 3010-4 Social Work Services for Children and Adolescents (4 + 0)

Policy issues and social work practice in the fields of child welfare, school social work and services for youth in trouble with the legal system are examined. Needs and rights of children are significant themes. Field visits to child-serving agencies are arranged.

SWK 3020-4 Case Management in Social Work Practice (4 + 0)

Prerequisites: SWK 1010 or permission of instructor

Case Management is a coordinating service applicable to clients with multiple needs in any setting. The planning, organizing, motivating and evaluating functions and skills of the case manager are the major foci.

SWK 3030-4 Social Work with the Aging (4+0)

The status, needs, problems and potentials of aging adults and their families are examined. Social policies and social work practice with the elderly are analyzed.

SWK 3050-3 Human Behavior and the Social Environment I (3 + 0)

Prerequisite: fulfillment of admission requirements to the Baccalaureate Social Work Program or permis-

sion of instructor for non-majors

This course explores major biopsychosocial theories of human behavior and development—infancy to adolescence—with special sensitivity to the meaning of culture and diversity. Concepts such as social injustice, ecological perspective and empowerment are included.

SWK 3060-3 Human Behavior and the Social Environment II (3 + 0)

Prerequisite: SWK 3050 or permission of instructor

This course explores major biopsychosocial theories of human behavior and development—adolescence to later adulthood—with special sensitivity to the meaning of culture and diversity. Concepts such as social injustice, ecological perspective and empowerment are included.

SWK 3100-3 Child Welfare and the Law (3 + 0)

Prerequisite: SWK 1010 or permission of instructor

This course will provide students with an overview of the legal framework for the delivery of child welfare services. It will include federal and state mandates relating to child abuse prevention and treatment, adoption and Indian child welfare. The role and processes of the court system will be discussed.

SWK 3150-3 Social Work and Child Maltreatment (3 + 0)

Prerequisite: SWK 1010 or permission of instructor

This course will provide students with the basic knowledge of intervention and treatment in situations of child maltreatment. This course will be taught from a family centered, culturally appropriate framework. Students will learn intervention models as currently practiced in county departments of social/human services.

SWK 3200-3 Social Work with Urban Families (3 + 0)

Prerequisite: SWK 1010 or permission of instructor

This course will provide students with an overview of the community's role in the prevention of child maltreatment. The course will be taught from an ethnically sensitive family and community centered practice framework. Students will learn about social issues and conditions that impact the safety and welfare of children, and intervention models currently proposed and/or in use locally and nationally that are intended to address these issues and ameliorate these conditions.

SWK 3250-3 Social Work and Developmental Disabilities (3 + 0)

This course takes a life-span approach to issues related to children and adults with developmental disabilities, and their families. Students will learn the history of societal treatment of people with developmental disabilities, current trends, philosophies and service delivery models. Students will also learn laws, regulations and eligibility issues related to services in Colorado, and to recognize their own biases and stereotypes about this population. The roles of beginning and generalist social workers in supporting people with developmental disabilities in the community will be presented.

SWK 3300-1 Social Work with Parents with Developmental Disabilities (1+0)

This course focuses on the unique learning styles and challenges of adults with developmental disabilities as parents. The roles of beginning and generalist social workers will be applied to this population.

SWK 3400-4 Social Work Macro Practice (4 + 0)

Prerequisites: SWK 1010 or permission of instructor

Since the 1900's, social workers have responded to the needs of underserved and oppressed client groups through generalist social work macro practice strategies that include cause advocacy, social action and community development. Social work macro practice principles are applied throughout this course as students find innovative ways to promote social change through coalition building, the legislative process and community resource development in partnership with client populations.

SWK 3410-4 Generalist Practice I (4 + 0)

Prerequisite: SWK 3050 or permission of instructor

This course is an introduction to generalist social work practice with diverse, urban populations-at-risk. Emphasis is on professional values, roles, relationships, and interviewing of individuals, families, groups, organizations and communities. Students develop an understanding of the problem-solving approach including initial contact, data collection, problem definition and goal setting.

SWK 3450-4 Mutual Aid Groups in Social Work (4 + 0)

Prerequisites: SWK 1010 or permission of instructor

Mutual aid groups aimed at empowerment of clients are often part of generalist social work practice to promote growth and change with individuals, families, groups, communities and organizations. Students will gain knowledge about types of groups, group leadership skills, and experience group process.

SWK 3500-4 Foundations for Social Work with Gays and Lesbians (4 + 0) (WMS 3500

This course explores concepts and methods useful in assessing and addressing the strengths, status, developmental needs, and social issues of lesbian, gay, bisexual, and transgender individuals. Relationships to families, groups, organizations, community and culture are explored and examined. Concepts of diversity and conflicts within this population-at-risk in both urban and rural settings will be presented. Issues of empowerment, support, equality, social justice, social policy and practice will be reviewed and discussed. Credit will be granted for only one prefix: SWK or WMS.

SWK 3600-4 Social Work with Women (4 + 0) (WMS 3600)

This course views social work practice from a feminist social work perspective. It examines issues of equality, social justice, social policy, and practice for women in a patriarchal society. The role of beginning and generalist social workers with women will be examined in the areas of mental health, health, child welfare, welfare, and gerontology. Credit will be granted for only one prefix: SWK or WMS.

SWK 3660-3 Women and Poverty (3 + 0) (SOC 3660, WMS 3660)

Prerequisites: SWK 1010, SWK 1020 or permission of instructor

This course introduces the student to the relationship between gender and poverty and will examine the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors will be explored in detail. The differences between prevailing stereotypes and current realities will be highlighted.

SWK 3700-4

Social Work and Early Intervention: Children Birth Through Five (4 + 0)

Prerequisites:

SWK 1010, SWK 1020 or permission of instructor

This course focuses on parents as initial teachers and recognizes the importance of the early stages of development and the impact that the environment has upon children ages 0–5. Family supports, the early intervention system, and service coordination will be examined. The role of beginning and generalist social workers with this population will be illustrated throughout the identification, assessment, intervention, and evaluation stages of family social work practice.

SWK 3780-3

Social Welfare Policy (3 + 0)

Prerequisite:

SWK 3050 or permission of instructor

Social welfare policies at the federal, state, and local levels form the context of direct practice. Social welfare legislation and programs are analyzed. Roles of advocate and lobbyist are examined. Past and present social policies are another focus of this course.

SWK 3790-4

Research in Social Work (4+0)

Prerequisite:

fulfillment of admission requirements to the baccalaureate Social Work Program or permission of instructor for non-majors. Students must complete MTH 1210 before enrolling in this course. This course presents fundamental principles, methodology and techniques of social research as applied to social work practice issues. The course emphasizes concepts, skills and values essential to the design and implementation of a research project. Major themes are critical analysis and effective utilization of published research.

SWK 3800-3

Family Preservation in Social Work (3 + 0)

Prerequisites:

SWK 1010 or permission of instructor

Family Preservation is the current model of practice used throughout child welfare and child protection services. This course focuses on the principles and practices of culturally sensitive, family preservation as it relates to the beginning professional. Knowledge and skills related to building family partnerships, family assessment, planning, and support through in-home services, life skills models, specialized responses to difficult populations, and service coordination are emphasized.

SWK 3990-4 Prerequisites:

Agency Experience II (1 + 9) Also offered as: SWK 399A–399G (letter denotes concentration)

SWK 1010, SWK 1020, SWK 2100, SWK 2150, SWK 2160 and SWK 3000

This course provides students an opportunity to experience working in a social work agency. Students will observe social work in action and experience themselves in helping roles under direct supervision. This course is designed for non-majors.

SWK 4010-4

Generalist Practice II (4 + 0)

Prerequisites: Corequisite:

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790 or permission of instructor

SWK 4790

This course presents the assessment, intervention, evaluation, termination and follow-up stages of generalist practice with oppressed populations, i.e., diverse, urban populations-atrisk who have experienced historic and current social/economic injustice. This includes individuals, families, groups, organizations and communities. Crisis intervention and risk management in protective services are also explored.

SWK 4250-3

Exploring Current Social Work Issues (3 + 0)

Prerequisites:

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790 or permission of instructor This course explores concepts and methods useful in assessing and addressing the impact of current social work issues on individuals, families, groups, organizations and communities. Populations at risk in urban settings will be discussed.

SWK 4410-4

Advanced Cross-Cultural Social Work Issues (4 + 0)

Prerequisites:

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790, or permission of instructor Emphasis is on empowerment of individuals, families, groups, organizations and communities who have experienced social and economic injustice. Students apply principles and perspectives essential to helping urban, populations-at-risk including African-American, Asian-American, Hispanic, Native-American and Anglo, through case examples. This course includes content on other minority groups such as the developmentally disabled, the aging, gays and lesbians, and women and children.

Professional Field Experience I (0 + 15) Also offered as: SWK 479A-479G (letter denotes SWK 4790-5

concentration)

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790 and permission of instructor Prerequisites:

Corequisite: SWK 4010

Students begin to develop readiness for professional employment while in a supervised placement in a social agency serving diverse populations-at-risk. Students integrate knowledge, skills, values and ethics within social work practice at the micro, mezzo and macro levels. Students work toward remediating conditions of social and economic injustice while in the

agency field placement.

SWK 4810-5 Professional Field Experience II (0 + 15) Also offered as: SWK 381A-381G (letter denotes

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790, SWK 4010, SWK 4790 and permis-Prerequisites:

sion of instructor

SWK 4850 Corequisite:

Students demonstrate readiness for professional employment while in their supervised placement in a social agency serving diverse populations-at-risk. Students integrate knowledge, skills, values and ethics within social work practice at the micro, mezzo and macro levels. Students have the opportunity to experience beginning social work practice during this second semester of their field placement. Students work toward remediating conditions of social and

economic injustice while in the agency field placement. (Senior Experience)

SWK 4850-3 Integrative Seminar (3 + 0)

SWK 3050, SWK 3060, SWK 3410, SWK 3780, SWK 3790, SWK 4010, SWK 4790 or permis-Prerequisites:

sion of instructor

Corequisite: SWK 4810

This course is designed to provide for discussion and critical analysis of students' theoretical knowledge and field work experience. Content focuses on nine areas: values and ethics, diversity, social and economic justice, populations-at-risk, human behavior and the social environment, social policy, research, practice and professional field experience. Students utilize current field placement experiences to complete assignments in each of these content areas.

THEATRE

THE 2201-2 The Speaking Voice in Performance (1 + 2)

SPE 1010 or permission of instructor Prerequisite:

This course is designed to teach professional voice users (such as actors, teachers, managers, and public speakers) how to develop and use their voice instruments in public performance

environments. This course emphasizes that voice work is for everybody.

THE 2210-3 Introduction to Theatre (3 + 0)

Prerequisite: ENG 1010 and satisfaction of the Level I Communications requirement; or permission of

instructor

This course presents a comprehensive survey of theatrical art providing an understanding of the living stage, its players and crafts and its place as a cultural force from antiquity to con-

temporary times. (General Studies-Level II, Arts and Letters)

THE 2220-3 Techniques of Acting I (2 + 2)

Prerequisite: THE 2210

This course provides an introduction to the basic principles of acting including improvement of voice, body and mind in the discipline of the theatre. Particular emphasis is placed on the

principles of stage movement, improvisation and beginning scene work.

THE 2230-3

Techniques of Acting II (2 + 2) THE 2210 and THE 2220, or permission of instructor Prerequisites:

This course builds upon basic principles of acting, including improvisation, character development, stage movement, voice and scene work. Study topics include development of audi-

tion techniques, basic acting, television acting techniques and advanced scene work.

THE 2240-3 Introduction to Stagecraft (2 + 2)

Prerequisite: THE 2210 or permission of instructor

This course provides an introduction to the principles, methods and materials of technical production including scenic design and construction, lighting design and practices, and

costuming and sound practices.

THE 2250-3 Stage Management (2 + 2)

Prerequisites: THE 2210 and THE 2240 or permission of instructor

> This course provides an introduction to theatre stage management methods and styles; including promptbook and blocking notations, actor management, the ongoing problem solving process involved in production, and the basics of the stage manager's union.

THE 2260-3

Music Theatre History and Performance (3 + 0)THE 2210 and THE 2220 or permission of instructor Prerequisites:

This course is designed to provide a survey of music theatre history and to explore the fundamentals of music theatre production, which students will then apply to selected music theatre

performances.

THE 2270-3 Production Analysis: Process and Technology (3 + 0)

Prerequisite: THE 2210 or permission of instructor

This course provides an introduction to the principles, methods, materials, and processes of theatre art production; including play and script analysis, literary theory, and the communi-

cation dynamics within the production team.

THE 2980-1-12 Beginning Internship: Theatre (0 + 3-36)

THE 2240 and THE 2270 or permission of instructor Prerequisites:

> This internship places students 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.

THE 3200-3 Oral Interpretation (3 + 0)

SPE 1010 or permission of instructor Prerequisite:

This course is a study of traditional and contemporary theories of interpretation of literature for the purpose of making the literature come alive for the listening audience and to improve oral communication skills. Students will present numerous oral performances for the appli-

cation of techniques.

THE 3210-3 Scene Painting (1+4)

ARTH 1500, ART 1141, THE 2240 and THE 2270; or permission of instructor Prerequisites:

The student will learn and develop basic and advanced theatrical scene painting skills. This course will focus on techniques of texture, color mixing, faux finishes and trompe l'oeil paint-

ing, the painting of drops and set rendering.

THE 3220-3 Stage Movement (2+2)

THE 2220 or permission of instructor Prerequisite:

This course provides the student/performer with intense instruction in the use and training

of the total human body for communication of artistic expression.

THE 3230-3 Acting III: Styles of Acting (2 + 2)

THE 2210 and THE 2220 and THE 2230, or permission of instructor Prerequisites:

This course is for advanced performers exploring basic "mask" acting techniques, as well as acting styles particular to Greek, Comedy of Manners, Farce, Shakespeare and Chekhov plays.

THE 3240-3 Theatre Improvisation Techniques (3+0)

THE 2210 and THE 2220 and THE 2230 or permission of instructor Prerequisites:

In this advanced performance course, students will explore basic improvisation acting techniques that enable the actor to develop concentration and spontancity, build characterization, discover relationships and status, establish mood and feeling, sense shape and rhythm of

scene and character, establish language and imagery, and build a play.

THE 3250-3 Introduction to Production Design and Scenography (2 + 2)

ART 1141, THE 2240 and THE 2270; or permission of instructor Prerequisites:

This course provides an introduction to the basic elements of design and production processes. Emphasis will be placed on the role of scenography, different theories of design, period

styles, drafting, model building and utilization of facilities.

THE 3270-3 Introduction to Stage Lighting and Sound (2 + 2)

ART 1100, THE 2240 and THE 2270 or permission of instructor Prerequisites:

This is an introductory course for lighting and sound in the theatre. The student will become familiar with lighting and sound equipment theoretically and practically. Lighting and sound design technologies prepare the student to operate lighting and sound equipment with an

emphasis on theatre specific practices and their applied technologies.

THE 3280-3 Stage Directing (2 + 2)

THE 2220 and THE 2240; or permission of instructor Prerequisites:

This course provides an introduction to the principles and techniques of directing for the theatre that includes the selecting, rehearsing, and performance of plays, and the presentation

of student-directed projects.

THE 3980-1-12 Advanced Internship: Theatre (0 + 3-36)

Prerequisite:

permission of instructor
This advanced internship requires more 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.

THE 4200-3 Reader's Theatre (3 + 0)

THE 3200, satisfaction of all Level I and Level II General Studies course requirements and Prerequisite:

senior standing; or permission of instructor

This course is designed to enhance students' skills in performing a variety of material as members of an ensemble. Emphasis will be placed on material selection, script adaptation, rehearsal techniques, public performance, collaborative and creative problem solving, and

evaluation. (Senior Experience)

THE 4210-1-3 Variable Topics in Theatre (3-9+0)

THE 2210, THE 2220 and THE 2240, or permission of instructor Prerequisites:

This course provides detailed and intensive study of specific theatre genres and practices.

THE 4220-3 Creative Dramatics for the Classroom Teacher (1 + 4)

Prerequisites: SPE 1010 and THE 2220 or permission of instructor

This course is designed to examine methods for learning creative, problem-solving techniques and self-expression through dramatic activity. Particular emphasis will be placed on using drama as a teaching tool and will include improvisation, puppetry, literature and

story dramatization.

THE 4240-3 Advanced Stage Craft and Applied Scene Technology (1 + 4)

Prerequisites: THE 2240 and THE 2270 or permission of instructor

This course examines the fundamentals of rigging, stage machinery and mechanics, metal working, fabrication with thermoplastics and foams, laminating techniques, "soft" sculpture construction, construction of non-rectilinear scenery, first echelon power tools maintenance,

and industry standard safety requirements and practices.

THE 4250-3 Advanced Scene Design: Applied Technology (2 + 2)

ARTH 1500, ART1141, IND 1430, THE 2240, THE 2270 and THE 3250; or permission of instructor Prerequisites:

The student will explore the role of the scene designer using elements of scenic design processes. In addition, students will integrate advanced technologies that support the designer with the conception, development and execution of stage settings and their applied technologies.

THE 4260-1 Theatre: Practicum I (0+2)

Prerequisites: THE 2240 or permission of instructor

This course provides the student with practical experience in theatrical productions, thus augmenting the theoretical aspects of other theatre courses. Course may be repeated for

credit up to three times.

THE 4270-2 Theatre: Practicum II (0 + 4)

Prerequisites: THE 3280 and THE 4260, or permission of instructor

This is an advanced course in practical supervision and administration of theatrical production processes. Students will be responsible for a major production activity. This class is open primarily to sophomore, junior, and senior level students. Course may be repeated for credit

up to three times.

THE 4280-3

Advanced Lighting: Applied Technology and Design (2+2) ARTH 1500, IND 1430, THE 2240, THE 2270, THE 3250, & THE 3270, or permission of instructor Prerequisites:

Advanced applied lighting technology and design fully prepares the student to design, set up, operate and provide basic repair for lighting systems and equipment with an emphasis on

theatre specific practices.

THE 4290-3

Advanced Sound: Applied Technology and Design (2 + 2)

Prerequisites: IND 1430, THE 2240, THE 3250 and THE 3270; or permission of instructor

Advanced applied sound technology and design fully prepares the student to design, set up, operate and provide basic repair for sound reinforcement and recording equipment with an emphasis on theatre specific practices. Digital audio and live performance mixing are covered in detail.

TEACHER IN RESIDENCE

TIR 4491-10

Teacher in Residence: Educational Theory and Methods (5 + 0)

Prerequisites:

must hold a Baccalaureate degree from an accredited institution and have been hired by a MSCD partner school district for employment in the content area in which the candidate can meet grade level and content licensure requirements under the Teacher in Residence legislation, S.B. 99-154

Corequisite:

Teacher in Residence candidates learn appropriate educational practices in management of the learning environment, short- and long-range planning, assessment and pedagogy to meet the Colorado Performance-Based Standards for Teachers and licensure requirements. Candidates will apply content knowledge and pedagogical strategies with appropriate discipline and management practices in assigned classrooms to facilitate learning and improve student achievement in the advanced field experience TIR 4492. TiR candidates will address the needs of diverse learners (gender, ethnicity, English language learners, exceptional learners, socioeconomic differences, etc.) in different contexts as reflected in daily decision-making and documented by direct observation and selected artifacts. Instruction includes required readings, articles, field-based examples, student-centered instructional tasks, classroom interaction and analysis to meet proficient level of performance in the Colorado Performance-Based Standards for Teachers. Candidates will learn about and practice selected theories and programs in discipline, management, and pedagogy. Coaching and feedback as strategies are used to support the development of TiR candidates in the classroom.

TIR 4492-20 Prerequisites:

Teacher in Residence Program: Advanced Field Experience (0 + 40)

must hold a Baccalaureate degree from an accredited institution and have been hired by a MSCD partner school district for employment in the content area in which the candidate can meet grade level and content licensure requirements under the Teacher in Residence legislation, S.B. 99-154

Corequisite:

Teacher in Residence candidates put educational theory into practice as a classroom teacher in the field to meet the Colorado Performance-Based Standards for teachers and licensure requirements. This course is the advanced field experience for TIR 4491. Candidates will apply content knowledge and pedagogical strategies with appropriate discipline and management practices in assigned classrooms to facilitate learning and increase student achievement. TiR candidates will address the needs of diverse learners (gender, ethnicity, English language learners, exceptional learners, socioeconomic differences, etc.) in different contexts as reflected in daily decision-making and will be assessed by direct observation and selected artifacts. Field experiences include application of methodology introduced in TIR 4491 to meet proficient levels of performance in the Colorado Performance-Based Standards for Teachers. Candidates will model and practice selected theories and programs in discipline, management, and pedagogy.

TRANSITION SERVICES

Reece Learning Communities

RLC 1190-3

Freshman Success (3 + 0)

This course fosters the enhancement and refinement of knowledge and skills in critical thinking, reading, writing, technology, and research. Students will engage in activities, discussion, and library and primary research projects that reflect multi-disciplinary scholarly practices. Course assignments include textual analysis, synthesis of ideas, and the development of documented ideas presented orally and in writing employing the language of the academy. Students will engage in collaborative projects and experiential learning to maximize their successful retention to college.

WOMEN'S STUDIES

WMS 1001-3 Introduction to Women's Studies (3 + 0)

Prerequisite:

minimum performance standard scores on reading, writing and mathematics preassessment tests. This course introduces the discipline of women's studies, the historical development of feminist thought, and the social, economic, and technological factors which have led to changing roles for women throughout the world. This course also focuses analysis on race and class with particular attention to women of color and non-Western women cross-culturally. (General Studies—Level II, Social Sciences) (GT-SS3)

WMS 1650-3

Women in U.S. History (3+0) (HIS 1650)

Prerequisite:

minimum performance standard scores on the reading and writing preassessment placement tests. This course emphasizes women's changing roles in American history from 1607 to the present. The course covers the nature of women's work and their participation in the family, church, and reform movements in the colonial and republican periods and the nineteenth and twentieth centuries. It includes the emergence of the modern woman in the twentieth century, as well as the re-emergence of the women's movement. The course stresses both the changes and the continuities over the last 400 years. Credit will be granted for only one prefix: WMS or HIS. (General Studies—Level II, Historical) (Guaranteed Transfer—HI1)

WMS 2010-3

Interdisciplinary Research Methods in Social Sciences (3 + 0) (AAS 2010 / CHS 2010)

Prerequisite: WMS 1001 or AAS 1010 or CHS 1000 or permission of instructor

This course focuses on the interdisciplinary study of methods, analyses and critiques used by scholars to study social issues within and across a range of disciplines (e.g., history, arts, humanities, sciences, education, health, economics, law and social/ behavioral sciences). Research designs, general statistical interpretation will be reviewed for each methodology. Techniques for laboratory and field research, conducting qualitative and quantitative studies, and writing research reports will also be included. Credit will be granted for only one prefix: WMS or AAS or CHS.

WMS 2100-3

Women of Color (3 + 0) (AAS 2100, CHS 2100, ICS 2100)

Prerequisites:

WMS 1001 or AAS 1010 or CHS 1000; or permission of instructor

Though U.S. women share much in common, their differences are salient to a thorough understanding of all these women's experiences. Comparative analysis of these differences and their significance according to race/ ethnicity and class are central to this course. The similarities among diverse groups of women will also be examined in order to better understand the complexity of women's lives. To focus the discussion the course will cover work; families; sexuality and reproduction; violence; religion; and politics. Credit will be granted for only on prefix: WMS or AAS or CHS. (General Studies—Level II, Social Sciences; Multicultural) (GT-SS3).

WMS 2450-3

Women's Literature (3 + 0) (ENG 2450)

Prerequisites:

ENG 1010 and ENG 2100 for students enrolled through English; ENG 1010 and WMS 1001 for students enrolled through Women's Studies

This course introduces students to women authors; to images of women in fiction, drama and poetry; and to feminist literacy 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. Credit will be granted for only one prefix: WMS or ENG.

WMS 2650-3

Women of the West (3 + 0) (HIS 2650)

This course examines women who inhabited the American frontiers from pre-Columbian times through the twentieth century. The lives and attitudes of Native American, Hispanic, African American, and native-born and European immigrant women are emphasized. Differences between images and the reality of women's lives are highlighted. Credit will be granted for only one prefix: WMS or HIS.

WMS 2770-3 Gender and Communication (3 + 0) (SPE 2770)

Prerequisites: SPE 1710 or WMS 1001 or permission of instructor, ENG 1010, and satisfaction of Level I

Communication requirement

This course is designed to expand students' abilities to inventory their own and others' culturally derived gendered communication pattern; analyze those pattern; contrast their own resulting functional and dysfunctional gendered behaviors; relate those behaviors and outcomes to their personal, social, community, political, cultural, economic, work and professional lifestyles; and formulate and engage in new behaviors outside the academic community based on increased gendered communication awareness (General Studies - Level II, Arts and Letters). Credit will be granted for only one prefix: WMS or SPE. (General Studies—Level II, Arts and Letters)

WMS 3050-3 Psychology of Gender (3 + 0) (PSY 3050)

Prerequisite: PSY 1001 or WMS 1001

This course presents a survey of major contemporary approaches to gender, including a range of scientific and theoretical work. A constructionist approach is utilized to synthesize the views. The course then reviews several major areas of application including relationships, health, violence, workplace, and achievements. Credit will be granted for only one prefix: WMS or PSY.

WMS 3070-3 Psychology of Sexual Orientation (3 + 0) (PSY 3070)

Prerequisites: PSY 1001; 6 additional hours of psychology or permission of instructor

This course explores psychological theory and research dealing with sexual orientation, with an emphasis on lesbian, gay and bisexual (LGB) identity. Topics include historical and theoretical frameworks, homophobia and heterosexism, origins of sexual orientation, LGB identity development and coming out, diversity, relationships and parenting, the role of community, and others. Credit will be granted for only one prefix: WMS or PSY.

WMS 3130-3 Readings in Women's Studies (1 + 4)

Prerequisites: WMS 1001 and ENG 1020; or permission of instructor

This course permits the student to develop an in-depth knowledge of the materials and information in the discipline of women's studies. Through the selections read, students will learn the theory, history, and scope of the literature in the field. This course offers individualized instruction and personal consultation with faculty.

WMS 3170-3 Multicultural Service Learning (2 + 2) (PSY 3170)

Prerequisites: PSY 1001 and six additional semester hours in psychology

This course is designed to combine psychological theory and practice around multicultural issues (including not only traditional classifications based on race and ethnicity but also others such as age, gender, socioeconomic level, health status, and sexual orientation). Lectures, readings, and discussions are integrated with a required service learning placement involving 45 hours of volunteer work in a psychological setting with supervision and training as necessary. Credit will be granted for only one prefix: WMS or PSY. (Multicultural)

WMS 3180-3 Feminist Philosophy (3 + 0) (PHI 3180)

Prerequisites: PHI 1010 or 1030 and junior standing are recommended.

This course involves an examination of traditional philosophical topics and questions from the perspective of contemporary feminist theory. Special consideration is given to feminist critiques of logic, rationality and scientific objectivity and to feminist approaches to ethical, social and political thought. Credit will be granted for only one prefix: PHI or WMS.

WMS 3220-3 Prejudice and Discrimination in Contemporary Society (3+0) (AAS 3220 / SOC 3220)

Prerequisites: SOC 1010 or WMS 1001, or permission of instructor; satisfaction of all Level I General Studies course requirements

This course examines the origins and characteristics of reace, racism, gender biases and ethnic prejudices; the social, psychological and cultural courses of discrimination and bias; and implications in current societal structures and institutions. Credit will be granted for only one prefix: AAS, SOC or WMS. (General Studies—Level II, Social Sciences; Multicultural)

WMS 3310-3 Women and the Law (3 + 0) (CJC 3710)

Prerequisite: WMS 1001 or permission of instructor

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. Credit will be granted for only one prefix: WMS or CJC.

WMS 3350-3 Sociology of Gender Roles (3 + 0) (SOC 3430)

Prerequisite: SOC 1010 or WMS 1001; or permission of instructor

This course explores social, political, and economic trends affecting the role of women and men in society. The emphasis is on the historical, social and cultural forces that have contributed to the social construction of gender in the United States and in other societies. The effects on individuals and the broader society in terms of maintaining and/or changing gender expectations are analyzed. Credit will be granted for only one prefix: SOC or WMS.

Women in European History (3 + 0) (HIS 3360) WMS 3360-3

This course provides an historical analysis of the role and contribution made by women in the development of Western civilization from Neolithic times to the present. Credit will be granted for only one prefix: WMS or HIS.

WMS 3420-2-3 Women and the Humanities: Variable Topics (2-3+0)

WMS 1001 or permission of instructor Prerequisite:

These courses focus on women in relation to the humanities under such titles as: Concepts about Women in Western Civilization; Feminist Creativity; Rediscovered Women Writers; and Feminist Ethics. Check Class Schedule for each semester's offerings. This course may be repeated once for credit under different topics.

WMS 3440-3 Women and the Natural Sciences: Variable Topics (3 + 0)

Prerequisite: WMS 1001 or permission of instructor

Women and the Natural Sciences covers such topics as Women's Biology; History of Women in Science; and Women and Geography. Check Class Schedule for each semester's offerings. This course may be repeated once for credit under different topics.

WMS 3450-3 Women and the Arts: Variable Topics (3 + 0)

WMS 1001 or permission of instructor Prerequisite:

These courses focus on women in relation to the arts and covers such topics as Woman as Muse; Women Artists; Women Composers/Conductors/ Performers; Women in Theatre; Women and Film; Women Subjects in Art. Check Class Schedule for each semester's offerings. This course may be repeated once for credit under different topics.

WMS 3460-3 Women and the Social Sciences: Variable Topics (3 + 0)

WMS 1001, SOC 1010, or permission of instructor, and satisfaction of all Level I General Prerequisites:

Studies course requirements

These courses focus on women in relation to the social sciences under such titles as: Women and the Family; Women and Addictions; Women in the Criminal Justice System; Domestic Violence; Cross-Cultural Roles of Women; Women and Politics. Check Class Schedule for each semester's offerings. This course may be repeated once for credit under different topics.

WMS 3470-3

Biology of Women (2 + 2) (BIO 3471) BIO 1000 or WMS 1001 or permission of instructor Prerequisite:

An examination of the anatomy and physiology of sex in humans, the mechanisms involved in formation of sex and gender, and the interactions between science, society, and medical practice with regard to issues of sex and gender. Credit will be granted for only one prefix: WMS or BIO.

The Psychology of Women (3 + 0) (PSY 3480) PSY 1001 or WMS 1001 WMS 3480-3

Prerequisite:

This course presents the history and development of theories, research and concepts in the psychology of women, including a focus on mental health and illness, the pathology of women's social roles, biological bases of women's behavior, and feminist psychological theories and research. Credit will be granted for only one prefix: WMS or PSY.

WMS 3500-4 Foundations for Social Work with Gays and Lesbians (4+0) (SWK 3500)

SWK 1010, SWK 1020 or permission of instructor Prerequisites:

This course explores concepts and methods useful in assessing and addressing the strengths, status, developmental needs, and social issues of lesbian, gay, bisexual, and transgender individuals. Relationships to families, groups, organizations, community and culture are explored and examined. Concepts of diversity and conflicts within this population-at-risk in both urban and rural settings will be presented. Issues of empowerment, support, equality, social justice, social policy and practice will be reviewed and discussed. Credit will be granted for

only one prefix: WMS or SWK.

WMS 3510-3 Feminist Theories and Practices I (3 + 0)

Prerequisites: WMS 1001, WMS 2010, and satisfaction of Level I General Studies course requirements; or

permission of instructor
This course studies both the classical tradition of feminist thought and contemporary expressions of feminist theories and issues in the Western world. The course analyzes traditional theories of human nature and "woman's nature." Feminist theory's primary concern is with understanding the social, psychological, economic, and political basis for women's realities and experiences. Primary and secondary sources in several disciplines are examined as they contribute to the development of the major branches of first and second wave feminist thinking. Theoretical frameworks will be applied through student participation in collective action projects. (General Studies—Level II, Arts and Letters)

WMS 3600-4 Social Work with Women (4+0) (SWK 3600)

SWK 1010, SWK 1020 or permission of instructor Prerequisites:

This course views social work practice from a feminist social work perspective. It examines issues of equality, social justice, social policy, and practice for women in a patriarchal society. The role of beginning and generalist social workers with women will be examined in the areas of mental health, health, child welfare, welfare, and gerontology. Credit will be granted for only one prefix: WMS or SWK.

WMS 3660-3 Women and Poverty (3 + 0) (SOC 3660, SWK 3660)

Prerequisites: SWK 1010, SWK 1020 or permission of instructor

This course introduces the student to the relationship between gender and poverty and will examine the underlying causes of the "feminization of poverty" in the United States. Social, economic, age-based and ethnic factors will be explored in detail. The differences between prevailing stereotypes and current realities will be highlighted.

WMS 3670-1-3 Contemporary Issues in Women's Studies: Variable Topics (1-3+0)

Prerequisite: WMS 1001 or permission of instructor

Objectives vary with course title, but generally focus on current issues that are constantly changing and developing in this area. Check *Class Schedule* for each semester's offerings. This course may be repeated once for credit under different topics.

Psychology of Group Prejudice (3 + 0) (AAS 3700/CHS 3700/PSY 3700) WMS 3700-3

Prerequisites:

PSY 1001 or AAS 1010 or CHS 1000 or WMS 1001

This course covers psychological theory and research that examines causes, consequences, and ways of reducing prejudice and discrimination. Various expressions of prejudice and discrimination are addressed, most notably racism and sexism. Credit will be granted for only one prefix.

Women's Spirituality (3 + 0) (PHI 3910) WMS 3910-3

Prerequisites:

WMS 1001 or PHI 1010

This course will explore the philosophical basis for and nature of women's spirituality. Political, social, and cultural aspects of the women's spirituality movement will be analyzed both within and beyond traditional institutionalized religion; facets of women's individual spiritual growth and development express themselves in a variety of ways, and this course seeks to examine emotional, cognitive, somatic, and physical aspects. Students will also have opportunities to participate in the art, music, and rituals associated with various traditions and to create projects that will illuminate their personal experiences. Credit will be granted for only one prefix: WMS or PHI.

WMS 3920-3 Women's Health Issues (3 + 0) (SOC 3920, PSY 3920, HES 3920)

Prerequisites: WMS 1001 or SCOC 1010 or HES 1050 or PSY 1001

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.

WMS 3950-3 Women's Art/Women's Issues (3 + 0) (ART 3950)

Prerequisites: WMS 1001, ART 1040 or ART 2000 (being changed, see department), or permission of

instructor, and satisfaction of Level I General Studies course requirements

This course develops an understanding of women artists and their work from the perspectives of feminist scholarship in art and art history. Credit will be granted for only one prefix: WMS or ART. (General Studies—Level II, Arts and Letters)

WMS 3980-1-12 Cooperative Education Internship (Variable Credit) (0 + 3-36)

Prerequisites: WMS 1001, junior or senior standing, and permission of instructor

This internship places students in corporate, private nonprofit, or community-based agencies that serve women. A written learning contract between student, faculty supervisor, site supervisor, agency and department chairs is required. Activities include: information and referral; client help with problem solving; resource development; program development; implementation and evaluation; group leadership. Faculty strongly recommends for Individualized Degree Program majors.

WMS 4250-1-3 Topics in Women's Studies: Variable Topics (1-3 + 0)

Prerequisite: WMS

WMS 1001 or permission of instructor

Topics are selected to incorporate an in-depth approach to the study of a particular area of historical, cultural, or political significance to women's studies students. Check Class Schedule for each semester's offerings. This course may be repeated once for credit as topics change.

WMS 4750-3 Feminist Theory and Practices II: Senior Seminar (3 + 0)

Prerequisites:

WMS 1001, WMS 2010, WMS 3510, satisfaction of all Level I and Level II General Studies

course requirements, and senior standing; or permission of instructor

Designed primarily for women's studies minors and Individualized Degree Program majors as the culmination of work in women's studies, this seminar will continue the exploration and evaluation of contemporary feminist theories, particularly non-Western frameworks, as well as focus on interdisciplinary bibliography and research methodology. Students will apply the knowledge gained in the introductory research methods class to a senior research paper and presentation. Papers will reflect each student's particular course of study and focus within the broader context of women's studies and feminist theory. (Senior Experience).

WMS 4830-3 Workforce Diversity (3 + 0) (MGT 4830)

Prerequisites:

satisfaction of Level I and Level II General Studies course requirements and senior standing This course provides an integrated perspective on the management practices and systems that influence the development and contributions of individuals within a culturally diverse work force. The focus is on those practices that enhance an organization's effectiveness in the increasingly competitive domestic and global marketplace. Credit will be granted for only one prefix: WMS or MGT. (Multicultural; Senior Experience)

WMS 4860-3

History of Feminism and Women's Rights (3 + 0) (HIS 4860)

Prerequisites: WMS 1001 or HIS 1210 or HIS/WMS 1650 or permission of instructor

The purpose of this course is to examine the history of American feminism from the Age of the Revolution to the present. Through the use of primary and secondary sources, the philosophies and strategies of women's rights activists and organizations will be examined. Among the special topics to be considered are the conditions and intellectual currents in society that facilitated the growth of American feminism, the achievements of the women's rights movement, the forces that opposed women's rights and the issues for debate within the feminist movements. Credit will be granted for only one prefix: WMS or HIS.



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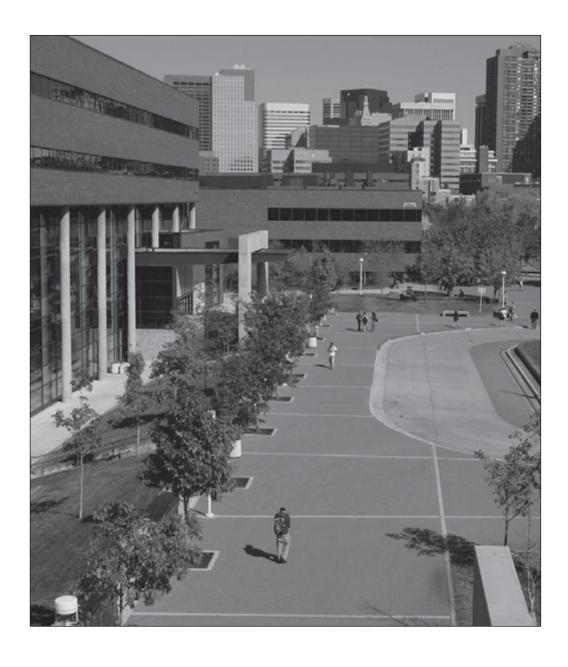
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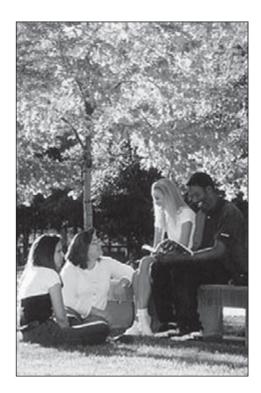
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