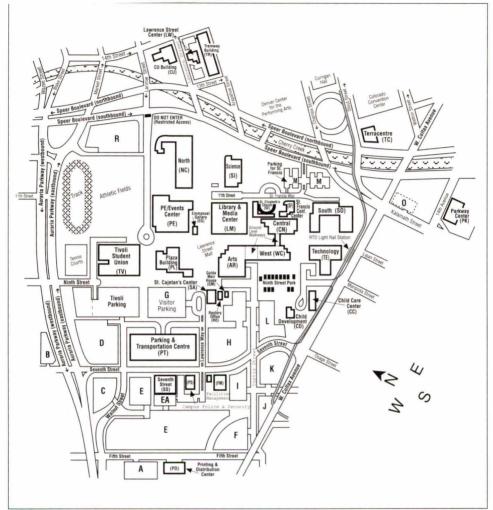


THE METROPOLITAN STATE COLLEGE of DENVER

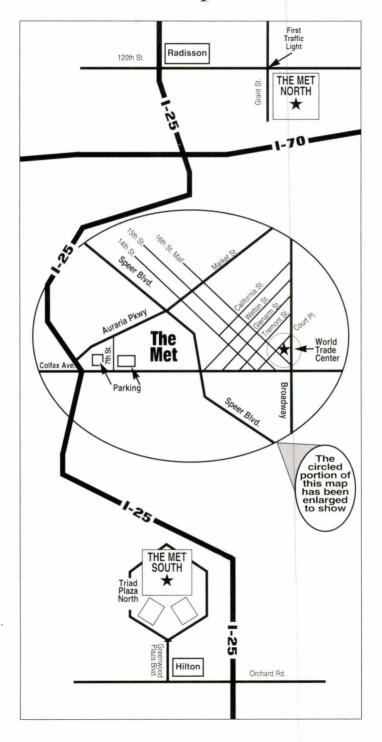
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aria Campus



Extended Campus Locations





THE METROPOLITAN STATE COLLEGE of DENVER

Campus Box 16 • P.O. Box 173362 • Denver, Colorado • 80217-3362

welcome

This Catalog contains comprehensive information about The Metropolitan State College of Denver, the degrees and programs it offers, and the requirements that must be satisfied before receiving a degree. This publication describes admissions and registration procedures, as well as services offered by the college. General tuition and fees

POSSIBLE CHANGES OF THE INFORMATION IN THIS CATALOG

The programs, policies, statements, and procedures contained in this Catalog are subject to change by the college without prior notice. The Metropolitan State College of Denver reserves the right to withdraw courses; revise the academic calendar; or change curriculum, policies, graduation procedures, and other requirements at any time. Changes will become effective whenever the proper authorities so determine and will apply to prospective students.

and financial aid packages and procedures are also covered.

SELECTION OF CATALOG FOR 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 Catalog in effect while they are enrolled at MSCD unless they are transferring from a regionally accredited Colorado community college, provided that the Catalog contains their complete program of study. Students not enrolling for three consecutive semesters or more are governed by the Catalog in effect upon their return. For effective dates of Catalogs, students should consult their academic advisers. All degree programs must adhere to overriding current policies at MSCD.

Students transferring from a regionally accredited Colorado com-

nunity college may complete degree requirements using an MSCD Catalog in effect while enrolled at he community college, subject to the following conditions.

- The Catalog selected does not predate the current Catalog by more than three years.
- The 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 at MSCD.

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.

THE METROPOLITAN STATE COLLEGE of DENVER

1997 - 1998 Catalog

TABLE OF CONTENTS

(See alphabetical index for specific topics.)

The College
Degrees and Programs
Basic Degree Requirements
General Studies Program
Admissions
Enrollment
Registration
Tuition and Fees
Financial Aid
Special Programs
Alternative Credit Options
Cooperative Education
Academic Policies and Procedures
Student Rights and Responsibilities
Services for Students
Student Life
Equal Opportunity and ADA Statement
Family Educational Rights and Privacy Act52
Student Right-to-Know and Campus Security Act
School of Business
School of Letters, Arts and Sciences
School of Professional Studies
Course Descriptions
Trustees of The State Colleges in Colorado
Officers of Administration
Faculty
Alphabetical Index
Auraria Campus Map
Extended Campus Location Man Inside Back Cover

Cover photo by: Chuck Carlton

Photography: Sidney Brock, Dave Neligh, Peggy O'Neill-Jones, H. Keith Williams

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GENERAL INFORMATION

THE COLLEGE

The 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. Excellence in teaching and learning is the college's primary objective.

The institutional mission is to provide a high-quality, accessible, enriching education that prepares students for successful careers, postgraduate education, and lifelong learning in a multicultural, global, and technological society. The college fulfills its mission by working in partnership with the community at large and by fostering an atmosphere of scholarly inquiry, creative activity, and mutual respect within a diverse campus community.

The college awards bachelor of science, bachelor of arts, and bachelor of fine arts degrees. Students can choose from 50 majors and 69 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. Unique majors for Coloradans include aerospace science, criminal justice, human services, and land use. Students may also design their own degree through the Individualized Degree Program.

At MSCD, the emphasis is on teaching. The college strives to provide students with every possible opportunity for success. The college has more than 385 full-time faculty, many with extensive professional backgrounds, who are appointed for their academic achievement and teaching abilities. Most of them hold the highest degree possible in their field. Part-time faculty work in the metropolitan Denver community and bring their expertise in the arts, business, communications, law, politics, science, and technology to the classroom. Small classes--the average size is 23--ensure students greater access to faculty, a highly interactive atmosphere, and a personalized learning experience.

Because each student's success is so important, the college provides an extensive network of services, which are listed and described in this *Catalog*.

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

THE CAMPUS

The Metropolitan State College of Denver is located at the Auraria Higher Education Center, a 175-acre campus in downtown Denver at Speer Boulevard and West Colfax Avenue. The Community College of Denver and the University of Colorado at Denver share the facilities with MSCD. Facility sharing affords students the flexibility of taking lower-division courses at the community college, as well as graduate or specialized professional courses at the university.

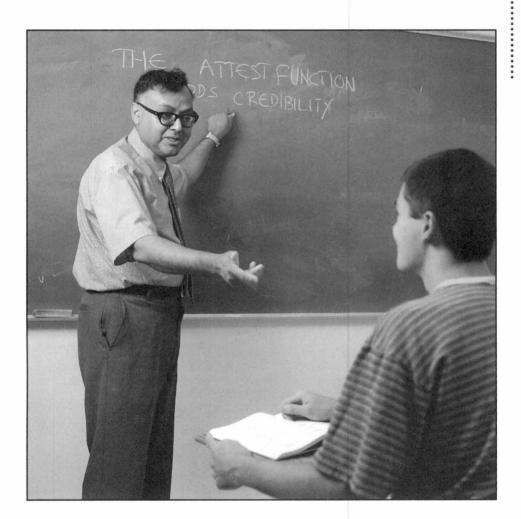
More than one million square feet of space for classrooms, laboratories, and offices are included in the facility. Some administrative offices are located in restored Victorian homes in Denver's historic Ninth Street Park located on the Auraria site. Other administrative offices occupy the Terracentre at 1100 Stout Street. The campus features a child care center, a comprehensive library housing 731,000 volumes, and one of the most unusual student union facilities in the country -- the historic Bavarian-style Tivoli Brewery Building. Excellent physical fitness facilities include a block-long physical education/events center with a swimming pool, a weight room, game courts, dance studios, and event seating for 3,000.

The proximity of the Auraria Higher Education Center 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. Metro South, located at 5660 Greenwood Plaza Boulevard in Arapahoe County, services 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. There are 24 degree programs that can be completed entirely by taking courses scheduled during the evenings and weekends, General information about these programs can be obtained from the Office of Admissions or the Academic Advising Center. The *Class Schedule* clearly identifies all evening and weekend courses.

The college's Extended Campus Program offers classes in traditional formats, as well as telecourses, online courses, and correspondence courses. The program has its own office, Central Classroom Building, room 318, which provides general assistance to students on specified weekends in the areas of advising, retrieval of college forms, scheduling, and assistance with student concerns that cannot be addressed during weekdays.



DEGREES AND PROGRAMS

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

tion of a minor.			
Major Minor	Bachelors Degree	Major	Minor
	School of Letters, Arts and	Sciences	
X x X X X X X X X X X X X X X X X X x bachelor of arts ence degree.	HUMANITIES Art** English. French German. Journalism Language and Linguistics Modern Foreign Languages Music Music Education* Music Performance* Philosophy	X X X X X X X X X X X X X X X X X X X	x x x x
x	Spanish	X	X
xxxxx	Chemistry Computer Science Criminalistics Geography Geology Land Use Mathematics Meteorology Physics. Theoretical Physics. SOCIAL SCIENCES African American Studies Anthropology Behavioral Science Chicano Studies History.	X X X X X X X X X X X X X X X X X X X	xxxxxxx
X x .	Political Science. Psychology Public Administration. Social Work*. Sociology. Urban Studies* ** Institute for Women's Studies and Women's Studies	XX	x x x x
	Major Minor X .	School of Letters, Arts and X X X HUMANITIES Art** English. French German. Journalism Language and Linguistics Modern Foreign Languages Music Music Education* Music Performance* Philosophy Writing. Public Relations Spanish Spanish Speech Communications **Art offers a bachelor of fine arts X SCIENCE AND MATHEMATICS Biology Chemistry Computer Science Criminalistics Geography X X Geology Land Use X Mathematics Meteorology Physics. X Meteorology Physics. X Theoretical Physics. X A Anthropology Behavioral Science. Chicano Studies Anthropology A Chicano Studies Anthropology Public Administration Social Work* Sociology Urban Studies* **Urban Studies offers a bachelor a bachelor of science degree.	Major Minor Bachelors Degree Major School of Letters, Arts and Sciences

INDIVIDUALIZED DEGREE PROGRAM

Even with the wide diversity of the majors and minors presently offered at MSCD, the need may arise for an academic program that is individualized, meets the specific educational objectives of the student, and is responsive to emerging educational requirements in the workplace and community. An Individualized Degree Program major or minor is an organized, coherent degree program designed to meet the specific educational goals of the student. It is developed by the student working closely with a faculty mentor, and must be approved by the appropriate department chair, the director of Adult Learning Services and the dean of the school from which the majority of credit is drawn. A professional in the community with specific expertise in the student's field of study may also serve as a community consultant to the student's program.

The degree sought may be either a bachelor of arts or bachelor of science. All requirements for any bachelor's degree from the college apply. Information and assistance is available through the Office of Adult Learning Services at (303) 556-8342.

CERTIFICATES OF COMPLETION

Certificates of completion that recognize the completion of a selected set of courses are offered. These may be used to prepare for new careers and can be applied toward a degree. See the current Class Schedule.

SCHOOL OF BUSINESS:

Personal Financial Planning

Real Estate

Noncredit Financial Planning

Noncredit International Trade

SCHOOL OF LETTERS, ARTS AND SCIENCES

German Translation

Basic Competency in German Basic Competency in French

Basic Competency in Spanish Spanish Translation Program

Public Administration

Career and Personal Development Cluster

Gerontology (Liberal Arts Orientation)

SCHOOL OF PROFESSIONAL STUDIES

Gerontology (Professional Services Orientation)

International Technical Writing

Multimedia Production

Corporate Video Production

Technical Writing and Editing

Coaching

Activities for Older Adults

Recreation Assistant

Aquatics Assistant

Extended Day Aids

Conditioning Specialist Officiating

Literacy Instructor

ACCREDITATIONS/APPROVALS

The Metropolitan State College of Denver is accredited by 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
Human Performance, Sport and Leisure Studies*	National Park Association/American Association for Leisure and Recreation
Nursing*	National League for Nursing
Teacher Education*	National Council for Accreditation of Teacher Education; Colorado Department of Education
Music*	National Association of Schools of Music
Civil Engineering Technology* Electronics Engineering Technology* and Mechanical Engineering Technology*	Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
Human Services**	Council for Standards in Human Services Education
Social Work*	Council on Social Work Education
Chemistry **	American Chemical Society
Center for Addiction Studies**	Colorado Department of Health
Accounting**	Colorado State Board of Accountancy
Aerospace Science**	Council on Aviation Accreditation
Health Care Management**	Association of University Programs in Health Administration

^{*} Accreditation

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 students, and it is recommended that they seek advice. Students should never assume that they have approval to deviate from a stated requirement without a properly signed statement to that effect.

REQUIREMENTS FOR ALL BACHELOR'S DEGREES

To earn a bachelor of science, a bachelor of arts, 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.

- Complete a minimum of 120 semester hours with a cumulative GPA of 2.0 or higher for all coursework.
- Complete at least 40 semester hours in upper-division courses (3000- and 4000-level courses).
- · Complete all General Studies requirements listed for the degree and major.
- Complete a three-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 6 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 areas of emphasis 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 adviser 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 adviser for special GPA program requirements.
- Complete a Graduation Agreement with the department when they have completed between 60-90 hours.
- · Academic residency (classroom credit) requirements:
 - ⇒ Complete a minimum of 30 semester hours of classroom 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 pooled courses and courses taken interinstitutionally or at one of the other state colleges will not satisfy academic residence requirements at MSCD.
 - ⇒ Complete the Senior Experience requirement.

CREDIT LIMITATIONS:

- ⇒ No more than 30 semester hours of omnibus-numbered courses may be applied toward graduation requirements.
- ⇒ No more than 30 semester hours taken by extension and/or correspondence may be applied toward a bachelor's degree.
- ⇒ No more than 4 semester hours in human performance and leisure activity or varsity sports courses will be counted toward a bachelor's degree for students who are not majoring in human performance, sport and leisure 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.

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 MSCD.
- 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 classroom upper-division semester hours in the major department.
- Students must complete a minor, if 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.
- A minimum of 30 semester hours of classroom credit at MSCD is required in addition to the credits completed by the student for the earlier degree.
- · Credit limitations for a bachelor's degree will continue to exist for the second degree.
- · A Graduation Agreement must be completed as outlined in this Catalog.





THE GENERAL STUDIES PROGRAM

PHILOSOPHY OF THE GENERAL STUDIES PROGRAM

The 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. 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:

- 7. Have an open attitude toward different approaches to problems
- 8. Have an informed awareness of the principle human achievements in history, arts and letters, society, and science, and
- 9. 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 principle 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 Sciences	
Total***	

^{*}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 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 current listing of these courses is published in this section, in the General Studies, Multicultural, and Senior Experience Requirements pamphlet, and in the Course Descriptions section of this Catalog.
- 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 whose curricula are guided by accrediting agencies may specify, by prefix and number, some General Studies courses in addition or a professional credential.
- · Courses taken using the pass-fail option cannot be counted for General Studies.

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 Assessment Requirements section). 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 first-year courses offered by MSCD. 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 "C" in the community college course specified by the department. The Assessment Center administers the placement tests. Students should consult an adviser in the Advising Center for guidance in selecting the appropriate Level I courses.

RULES: COMPOSITION REQUIREMENT

- Students must complete the ENG 1010 requirement within their first 30 semester hours at MSCD and the ENG 1020 requirement within their first 60 semester hours. These requirements may be postponed only if approved in writing by the English Department.
- Students must demonstrate the adequacy of their writing skills in the placement exam before
 enrolling in ENG 1010. Those students whose writing skills are inadequate will be counseled
 on how to improve those skills. Students may be required to complete additional coursework.

^{**}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.

- Students will have satisfied the Level I composition requirements if they:
 - ⇒ satisfactorily complete ENG 1010 and 1020, or
 - ⇒ pass a CLEP or AP examination approved by the English Department (ENG 1010 only), or
 - ⇒ transfer equivalent courses.

MATHEMATICS (minimum 3 semester hours*)		Se	m	ie	st	eı	r]	H	01	ur	'S
MTH 1080 Mathematical Modes of Thought											3
MTH 1110 College Algebra											
MTH 1210 Introduction to Statistics											
MTH 1310 Finite Mathematics for the Management and Social Sciences	s.										4
MTH 1610 Mathematical Concepts for Teachers in Presecondary Schoo	ls										4

RULES: MATHEMATICS REQUIREMENT

- Students will take the mathematics placement exam to determine their abilities to calculate
 with fractions, decimals, and percents, and to know and use elementary geometrical formulas.
 Those whose skills are inadequate are required to complete college arithmetic coursework
 before enrolling in a Level I mathematics course. Some courses have additional requirements.
- Students must complete the Level I mathematics requirement within their first 30 semester hours at MSCD. This requirement may be postponed on an individual basis if the postponement is approved in writing by the Mathematical and Computer Sciences Department.
- Students will have satisfied the Level I mathematics requirement 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 exam approved by the Mathematical and Computer Sciences Department, or
 - ⇒ successfully complete a mathematics course for which a Level I mathematics course is a prerequisite, or
 - ⇒ transfer an equivalent course.

*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.

Communic	CATION	(minimum 3 semester hours*)	Se	en	ie	ste	er	H	oı	ırs
FRE	1020	Elementary French II								. 5
		Elementary German II								
HON	2950	The Art of Critical Thinking								. 3
		Language, Logic, and Persuasion								
RDG	1510	Cognitive Strategies for Analytical Reading								. 3
SPA	1020	Elementary Spanish II								. 5
SPE	1010	Public Speaking								. 3
SPE	1710	Interpersonal Communications: Individual as a Communic	ato	or.						. 3

RULES: COMMUNICATION REQUIREMENT

- Students must complete the required Level I communication course within their first 30 semester hours at The Metropolitan State College of Denver.
- Students will have satisfied the Level I communication requirement if they:
 - ⇒ pass an approved Level I communication course (listed above), or
 - ⇒ pass a CLEP or AP test approved by a department offering a Level I communication course, or
 - ⇒ transfer an equivalent course.
 - ⇒ transfer a second semester, four- or five-semester hour foreign language course or a more advanced language course that is taught in a language not offered at MSCD.
 - ⇒ 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 1020 or equivalent coursework, or more advanced coursework, as a prerequisite.
 - ⇒ pass or transfer an advanced public speaking course for which MSCD's SPE 1010 or a comparable course is a prerequisite.

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.

*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 will be determined by the department offering the Level I course.

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 has completed at least 33 semester hours of General Studies courses.

LEVEL II CATEGORIES		S	en	ies	ste	er	H	lo	urs
Historical	 								. 3
Arts and Letters	 								. 6
Social Science	 								. 6
Natural Science	 								. 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 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 General Studies course requirements
- Natural Science and Social Science:
 - ⇒ Courses numbered 1000 to 1990: minimum performance standard 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 requirements
 - ⇒ 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 requirement.
- Students may not apply more than 8 semester hours of credit with the same course prefix to the Level II requirements.
- Students may use either prefix for a cross-listed 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 sciences, 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 Courses (minimum 3 semester hours*)

Historical courses aim to impart a broad knowledge of history, emphasizing the major forces, people, and events that have shaped the modern world.

The following courses may be used to satisfy the General Studies historical requirement. Other courses may have been approved for such use after the publication of this Catalog. For more recent information, contact the Advising Center.

	Semester Hours
AAS 1130/HIS 1940n	nc Survey of African History
AAS 2130/HIS 2950n	nc West African Civilizations
CHS 1010/HIS 1910n	
	Pre-Columbian and Colonial Periods
CHS 1020/HIS 1920n	nc History of the Chicano in the Southwest:
	1810 to present
FRE 3550	French Historical Perspectives
HIS 1000	American Civilization
HIS 1010	Western Civilization to 1715
HIS 1020	Western Civilization since 1715
HIS 1110	Colorado History I
HIS 1210	American History to 1865
HIS 1220	American History since 1865
HIS 1250	China, Japan, Korea since 1800
HIS 1650/WMS 1650	Women in U.S. History
HIS 1910/CHS 1010n	nc History of Meso-America:
	Pre-Columbian and Colonial Periods
HIS 1920/CHS 1020n	nc History of the Chicano in the Southwest: 1810
	to Present3
HIS 1930/NAS 1930n	nc History of Indigenous/Hispanic Americans
HIS 1940/AAS 1130n	
HIS 2010	Contemporary World History3
HIS 2950/AAS 2130n	
HIS 3030	Ancient Orient and Greece
HIS 3060	Rome and the Caesars
HIS 3090mc	Native Americans in American History
HIS 3120	Medieval History
HIS 3140	Renaissance and Reformation
HIS 3310	England to 1714
HIS 3320	England since 1714
HIS 3590	American Immigration History3
HIS 3700	Modern China
HIS 3740	Modern Japan
HIS 3810	Latin America: Republics
HIS 4110/HON 3850	American Culture I
HIS 4120/HON 3860	American Culture II
HON 3850/HIS 4110	American Culture I
HON 3860/HIS 4120	American Culture II
NAS 1930/HIS 1930n	
WMS 1650/HIS 1650	Women in U.S. History
* A and have deviation	in the Consul Studies historical requirement may be allowed provided t

^{*}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. mc—This course will also satisfy the Multicultural requirement.

Arts and Letters Courses (minimum 6 semester hours*)

Arts and 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.

The following courses may be used to satisfy the General Studies arts and letters requirement. Other courses may have been approved for such use after the publication of this *Catalog*. For more recent information contact the Advising Center.

	Semester Hours
	African American Literature 3
ART 1040	Art Appreciation Survey
ART 3090mc	Art and Cultural Heritage
ART 3950/WMS 3950	Women's Art/Women's Issues
ENG 1100	Introduction to Literature
ENG 1110	Introduction to Fiction
ENG 1120	Introduction to Drama
ENG 1310	Introduction to Shakespeare
ENG 3030	Semantics
	African American Literature 3
ENG 3420	English Bible as Literature
ENG 3430	Classical Mythology
ENG 3460	Children's Literature
FRE 3110	Survey of French Literature I
FRE 3120	Survey of French Literature II
GER 3200	German Culture and Civilization
HON 2750	The Legacy of Arts and Letters I
HON 2760	The Legacy of Arts and Letters II
MUS 1000	Introduction to Music
MUS 3000mc	Musics of America
MUS 3040	Music and the Arts
MUS 3050	Musics of the World
PHI 1010	$Introduction \ to \ Philosophy \dots \dots$
PHI 1030	Ethics
PHI 3000	History of Greek Philosophy
PHI 3020	History of Modern Philosophy
PHI 3360	Business Ethics
PSC 3050	Political Theory
RDG 3060	Critical Reading/Thinking
SPA 3200	Culture and Civilization of Spain
SPA 3210	Spanish-American Culture and Civilization
SPA 3220	Folklore and Culture of the Mexican Southwest 3
SPE 2210	Introduction to Theatre
SPE 2770/WMS 2770	Gender and Communication3
SPE 3080	Great American Speakers3
SPE 3740	Psychology of Communication
SPE 3760mc	Cultural Influences on Communication
WMS 2770/SPE 2770	Gender and Communication3
WMS 3510	Feminist Theory
WMS 3950/ART 3950	Women's Art/Women's Issues

^{*}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.

mc-This course will also satisfy the Multicultural requirement.

Social Science Courses (minimum 6 semester hours*)

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

The following courses may be used to satisfy the General Studies social science requirement. Other courses may have been approved for such use after the publication of this *Catalog*. For more recent information contact the Advising Center.

	Semester Hours
AAS 1010mc	Introduction to African American Studies 3
AAS 2100/CHS 2100/ICS 2100	
NAS 2100/WMS 2100mc	Women of Color
AAS 2200/PSC 2200mc	Politics and Black People
AAS 3300/SOC 3140mc	The Black Community
AAS 3550/SOC 3440	The Black Family
ACC 1010	Accounting for Non-Business Majors
ANT 1310	Introduction to Cultural Anthropology 3
ANT 2330mc	Cross-Cultural Communication
ANT 3310mc	Ethnography of North American Indians
ANT 3480mc	Cultural Diversity in Health and Illness
CHS 1000mc	Introduction to Chicano Studies
CHS 2100/AAS 2100/ICS 2100	
NAS 2100/WMS 2100mc	Women of Color
CHS 3100/SOC 3130mc	The Chicano Community
CHS 3210/SOC 3470	The Chicano Family
ECO 2010	Principles of Economics(Macro
ECO 2010 ECO 2020	Principles of Economics(Micro
EDS 3200	Educational Psychology Applied to Teaching 3
EDU 2640mc	Urban and Multicultural Education
FRE 3560	Contemporary Socio-Cultural Issues
GEG 1000	1 7
	World Regional Geography
GEG 1300	Introduction to Human Geography
GEG 2320 (NA S 2300 /	Geography of Colorado3
GEG 3300/NAS 3300/	Land Has Culture and Conflict
PSC 3300mc	Land Use, Culture and Conflict
HES 1050	Dynamics of Health
HES 2000	Health Politics and Policy
HES 2180	AIDS: Acquired Immune Deficiency
HIE 2660	Syndrome
HIS 3660	Recent U.S., 1945(1970s
HMT 1850mc	Multicultural/Multinational Cultural
HON 2000	Adjustment/Readjustment
HON 3800 HON 3810	Revolutions and Social Change I
HPS 2720	Revolutions and Social Change II
HSP 3490mc	Fundamentals of Coaching
ICS 2100/AAS 2100/CHS 2100	
NAS 2100/WMS 2100/CHS 2100/ NAS 2100/WMS 2100mc	
ITS 2810	Women of Color
JRN 1010	Technology, Society and You
LES 4730 MKT 2040	Sociology of Athletics in American Society
NAS 1000mc	Managerial Communications
NAS 2100/AAS 2100/CHS 210	
ICS 2100/WMS 2100mc	Women of Color
NAS 3200/PSC 3200mc	Native American Politics
PSC 1010 PSC 1020	American National Government
	Political Systems and Ideas
PSC 2200/AAS 2200mc	Politics and Black People
PSC 3200/NAS 3200mc	Native American Politics

PSC 3300/GEG 3300	
NAS 3300mc	Land Use, Culture and Conflict
PSY 1001	Introductory Psychology
PSY 2160	Personality and Adjustment
PSY 2210	Psychology of Human Development
PSY 3250	Child Psychology
PSY 3260	Psychology of Adolescence
SOC 1010	Introduction to Sociology
SOC 1040mc	Introduction to Gerontology
SOC 2010	Current Social Issues
SOC 3130/CHS 3100mc	The Chicano Community
SOC 3140/AAS 3300mc	The Black Community
SOC 3220/WMS 3220mc	Race, Gender and Ethnic Groups
SOC 3440/AAS 3550	The Black Family
SOC 3470/CHS 3210	The Chicano Family
SWK 1010	Introduction to Social Welfare and Social Work 3
WMS 1001	Introduction: Woman in Transition
WMS 2100/AAS 2100/CHS 210	00
ICS 2100/NAS 2100mc	Women of Color
WMS 3220/SOC 3220mc	Race, Gender and Ethnic Groups

^{*}A one-hour deviation in the General Studies social science requirement may be allowed, provided the student's completed General Studies Program contains at least 33 semester hours.

mc - This course will also satisfy the Multicultural requirement.

Natural Science Courses (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.

The following courses may be used to satisfy the General Studies natural science requirement. Other courses may have been approved for such use after the publication of this *Catalog*. For more recent information, contact the Advising Center.

	Semester Hours
ANT 1010	Physical Anthropology and Prehistory
AST 1040/AST 1040sp	Introduction to Astronomy
AST 3040	Modern Cosmology
BIO 1000/BIO 1000sp	Human Biology for Non-Majors
BIO 1010/BIO 1010sp	Ecology for Non-Majors3
BIO 1080/BIO 1080sp	General Introduction to Biology
BIO 3300	Advanced Human Biology for Non-Majors
BIO 3550	Urban Ecology
CHE 1010	Chemistry and Society
CHE 1100	Principles of Chemistry
CHE 1800 & CHE 1850	
CHE 1810 & CHE 1850	
CHE 3100	Organic Chemistry I
CHE 3120	Organic Chemistry I Laboratory
GEG 1100	Introduction to Physical Geography
GEG 1200	Introduction to Environmental Sciences
GEG 1400	World Resources
GEL 1010	General Geology
GEL 1020	Geology of Colorado
GEL 1150	Oceanography
HES 2040	Introduction to Nutrition3
HES 2150	Alternative Therapies for Health and Healing 3
HES 3450	Dynamics of Disease
HON 2800	History of Science
HON 2810	Development of Experimental Science

mc - This course will also satisfy the Multicultural requirement.

sp - Self-paced

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 class 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 COURSE REQUIREMENT (minimum 3 semester hours)

Multicultural courses are designed to increase students' appreciation and awareness of the American culture and the diverse cultures that contribute to it. Multicultural educational offerings examine the interactions of values and beliefs, traditions, identities, and cultural contributions of women, and racial and ethnic groups in the United States: African American, Asian American, Hispanic American, and Native American. Students may use the course to satisfy General Studies, major, or minor requirements if the course is approved for that use. If the course is used for General Studies, the Level II General Studies restrictions remain in effect, e.g., no courses with the major prefix may be used.

A one-hour deviation in the Multicultural requirement will be allowed for courses judged to be similar in content to an existing Multicultural course. Equivalency will be determined by the department offering the Multicultural course.

	Semester Hours
AAS 1010	Introduction to African American Studies 3
AAS 1130/HIS 1940	Survey of African History3
AAS 2100/CHS 2100/ICS 2100/	
NAS 2100/WMS 2100	Women of Color
AAS 2130/HIS 2950	West African Civilizations
AAS 2200/PSC 2200	Politics and Black People
AAS 3240/ENG 3240	African American Literature3
AAS 3300/SOC 3140	The Black Community
ANT 2330	Cross-Cultural Communication
ANT 3310	Ethnography of North American Indians
ANT 3480	Cultural Diversity in Health and Illness
ART 3090	Art and Cultural Heritage
CHS 1000	Introduction to Chicano Studies
CHS 1010/HIS 1910	History of Meso-America:
	Pre-Columbian and Colonial Periods
CHS 1020/HIS 1920	History of the Chicano in the Southwest:
	1810 to Present

^{*}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.

^{*}Completion of both CHE 1800 and 1850 with passing grades is required to receive General Studies credit. The same is true of the combination CHE 1810 and 1850.

	CHS 2100/AAS 2100/ICS 2100/			
	NAS 2100/WMS 2100	Women of Color		
	CHS 3100/SOC 3130	The Chicano Community		
	CHS 3200/CJC 3720	Chicanos and the Law		
	CJC 3720/CHS 3200	Chicanos and the Law		
	EDS 3110	Processes of Education in Multicultural Urban		
	220 2110	Secondary Schools		
	EDU 2640	Urban and Multicultural Education		
	ENG 3240/AAS 3240	African American Literature		
	GEG 3300/NAS 3300	Timedi Timeredi Eteradae		
	PSC 3300	Land Use, Culture and Conflict		
	HIS 1910/CHS 1010	History of Meso-America:		
	1115 1710/0115 1010	Pre-Columbian and Colonial Periods		
	HIS 1920/CHS 1020	History of the Chicano in the Southwest:		
	1110 1720/0110 1020	1810 to Present		
	HIS 1930/NAS 1930	History of Indigenous/Hispanic Americans		
	HIS 1940/AAS 1130	Survey of African History		
	HIS 2950/AAS 2130	West African Civilizations		
	HIS 3090	Native Americans in American History		
	HIS 3590	American Immigration History		
	HMT 1850	Multicultural/Multinational Cultural		
	HWI 1830	Adjustment/Readjustment		
	HSP 3490	Multicultural Issues in Human Services		
	ICS 2100/AAS 2100/CHS 2100/	Multicultural issues in Human Services		
		Women of Color		
	NAS 2100/WMS 2100	women of Color		
	NAS 3300/GEG 3300 PSC 3300	Land Has Cultura and Conflict		
		Land Use, Culture and Conflict		
	MGT 4830	Workforce Diversity		
	MUS 3000	Musics of America		
	NAS 1000	Introduction to Native American Studies		
	NAS 1930/HIS 1930	History of Indigenous/Hispanic Americans		
	NAS 2100/AAS 2100/CHS 2100/	W GG I		
	ICS 2100/WMS 2100	Women of Color		
	NAS 3200/PSC 3200	Native American Politics		
	PSC 2200/AAS 2200	Politics and Black People		
	PSC 3200/NAS 3200	Native American Politics		
	PSC 3300/GEG 3300			
	NAS 3300	Land Use, Culture and Conflict		
	PSY 3170	Multicultural Service Learning		
	SOC 1040	Introduction to Gerontology		
	SOC 3130/CHS 3100	The Chicano Community		
	SOC 3140/AAS 3300	The Black Community		
	SOC 3220/WMS 3220	Race, Gender, and Ethnic Groups		
	SPE 3760	Cultural Influences on Communication		
	WMS 2100/AAS 2100/CHS 2100/			
	ICS 2100/NAS 2100	Women of Color		
	WMS 3220/SOC 3220	Race, Gender and Ethnic Groups		
	XXX* 1190	First-Year Seminar		
*Var	*Variable course prefixes, e.g., ENG, PSC, RDG, SOC, SPE			

SENIOR EXPERIENCE COURSE REQUIREMENT (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 adviser 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 have the following minimal prerequisites: satisfaction of all Level I and Level II General Studies course requirements and senior status. In some cases students may need to take two courses to satisfy the requirement.

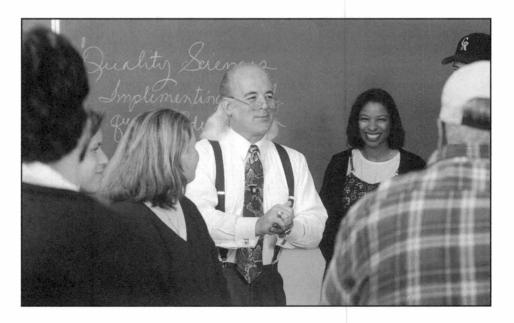
iory are requirement.	Semester Hours
ART 4010	Modern Art History: Theory and Criticism
ART 4750	Senior Experience Studio: Portfolio
	Development and Thesis Show
BIO 4510	Microbial Ecology3
BIO 4540	Plant Ecology
BIO 4850	Evolution
CEN 4600	Senior Seminar
CHE 4950	Senior Experience in Chemistry
CHS 4850	Research Experience in Chicano Studies
CJC 4650	Ethics for the Criminal Justice Professional
COM 4410	Budgeting and Planning for Audio-Visual Productions 3
COM 4790	Senior Seminar in Technical Communications
CSI 4260	Software Engineering Practices
ECO 4600	History of Economic Thought
EDS 4290	Student Teaching and Seminar: Secondary 6, 8, 12
EDU 4190	Student Teaching and Seminar: Elementary K-6 6, 8, 10, 12
EDU 4380	Teaching Practicum in Pre-primary Early Childhood Education . 3-6
EDU 4390	Student Teaching and Seminar-Early Childhood
	(Preschool through Third grade) 6, 8, 10
EDU 4690	Professional Practicum
EET 4100	Senior Project I
EET 4110	Senior Project II
ENG 4520	Advanced Writing
ENG 4610	Theories and Techniques in Literary Criticism
ENG 4640	Teaching English, 7-12
ENG 4660	Teaching Literature and Language K(6
FRE 4520	Modern French Theater
FRE 4530	The French Novel
GEG 4960	Global Environmental Challenges
GEL 4960	Environmental Field Studies
GER 4110	The German Novel of the 19th and Early 20th Centuries3
GER 4120	German Drama of the 19th and 20th Centuries
HCM 4510	Health Care Management Practicum 6
HIS 4820	Senior Seminar
HMT 4040	Senior Hospitality Research Experience I
HMT 4400	Senior Hospitality Research Experience II
HPS 4600	Organization, Administration of Human
*****	Performance and Sports Programs
HPS 4870	Internship for Athletic Training
HPS 4880	Internship for Adult Fitness Major
HPS 4890	Internship for Human Performance
HSP 4790	Professional Internship
ITS 4960	Professional Industrial Internship
JRN 4500	Ethical and Legal Issues in Journalism
LES 4890	Internship for Leisure Studies
MET 4010	Advanced Manufacturing Technology
MET 4070	Computer-Aided Design
MGT 4830mc	Workforce Diversity
MGT 4950	Strategic Management
MTH 4210	Probability Theory 4

MTH 4220	Stochastic Processes
MTH 4410	Advanced Calculus I
MTH 4480	Numerical Analysis I
MUS 4110	Analysis of Music
MUS 4340	Secondary School Music Methods and Materials
MUS 4390	Supervised Field Experience
MUS 4510	Advanced Conducting
MUS 4740	Performance VIII
MUS 4790	Senior Recital
MUS 4950	Senior Project
NUR 4850	Nursing Process: Application
PHI 4100	Senior Seminar
PHY 4620	Computational Physics II
PHY 4721	Advanced Physics Laboratory II
PHY 4920	Physics Senior Seminar
PSC 4020	Special Studies
PSY 4510	History and Systems of Psychology 3
RDG 4600	Practicum in Literacy Enhancement
SOC 4600	Advanced Research in the Social Sciences
SOC 4710	Applied Sociology
SPA 4200	Spanish American Essay: 19th and 20th Centuries
SPA 4310	History of the Spanish Language
SPE 4090	Classical Rhetoric
SPE 4120	Freedom of Speech
SPE 4490	Effects of Radio-Television on Contemporary Life
SWK 4810	Professional Internship II
WMS 4750	Senior Seminar

mc - This course will also satisfy the Multicultural requirement.

ASSESSMENT EXAMINATIONS AND OTHER ACTIVITIES

In their senior year, students may be required to participate in an assessment of their general 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.



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ADMISSIONS

ADMISSION REQUIREMENTS

The college uses two categories for classifying applicants: those who are younger than 20 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.

Students maintain the status of continuing student while absent from the college for less than one year; however, following two full semesters of absence, students should call the Registrar's Office to determine whether an updated application for re-admission will be required. For more information, see Admission of Previously Enrolled Students (page 24).

APPLICANTS YOUNGER THAN 20

Applicants who are younger than 20 on September 15 for either the summer semester or the fall semester, or February 15 for the spring semester, will be classified as a traditional applicants. They will be considered for admission using the requirements described below.

FRESHMEN (FIRST-TIME COLLEGE STUDENTS):

- The college will admit students who are likely to complete successfully an academic program
 and who meet state requirements for the college as established by the Colorado Commission
 on Higher Education (CCHE).
- Applicants who do not meet the stated admission requirements will be considered on an individual basis that includes a careful review of all credentials, including letters of recommendation and personal interview.
- Applicants who have not graduated from high school but have 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.
- Applicants must request that the following information be mailed directly to the Admissions
 Office from the high school or testing agency:
 - ⇒ ACT or SAT test results
 - ⇒ high school grade point average
 - ⇒ high school class rank
- This information may be submitted at the end of the sixth, seventh, or eighth semester of high
 school, but no later than four weeks before the expected term of enrollment. An official transcript with date of graduation is required no later than the fourth week of the term of enrollment. Students should request and verify that the high school transcript with date of graduation
 has been mailed by the high school and has been received by the Admissions Office.

COLLEGE TRANSFER:

- The college will admit students who are most likely to complete successfully an academic program and who meet state requirements for the college as established by the Colorado Commission on Higher Education (CCHE).
- Applicants who have less than a cumulative 2.0 grade point average from all colleges and universities attended will be considered on an individual basis that includes a careful review of all credentials, including letters of recommendation and a personal interview.
- Applicants must request that the following information be mailed directly to the Admissions
 Office from the high school, testing agency, and/or college or university:
 - ⇒ ACT or SAT test results
 - ⇒ high school transcript
 - ⇒ transcript from each college or university attended or currently attending
 - ⇒ verification of enrollment if currently attending

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These credentials should be received at least four weeks prior to the first day of classes. 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 the summer semester or the fall semester, or February 15 for the spring semester, will be considered for admission using the requirements described below for a first-time college student or a college transfer student:

FRESHMEN (FIRST-TIME COLLEGE STUDENTS):

- Applicants will be admitted to the college upon indicating on the application for admission that
 they have graduated from high school or that they have received a General Educational Development (GED) certificate.
- 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 sent
 to the Admissions Office. Degree-seeking students will not be
 permitted to register for a second semester until this credential is received.
- By signing the application for admission, non-degree-seeking applicants understand that they
 do not have to submit credentials to continue at MSCD.
- The ACT or SAT is not required for admission but is highly recommended for advising purposes.

COLLEGE TRANSFER:

- Applicants will be admitted to the college, regardless of their cumulative college GPA, if they
 indicate on their application for admission that they have graduated from high school or that
 they have received a General Educational Development (GED) certificate.
- 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
 sent directly to the Admissions Office. In place of these credentials, college transfer students
 may have college transcripts that indicate at least 30 semester hours or 45 quarter hours of
 transferable "C" work sent directly to MSCD.
- Degree-seeking transfer applicants are required to have all college and university transcripts on file to receive a transfer evaluation.
- By signing the application for admission, non-degree-seeking applicants understand that they
 do not have to submit credentials to continue at the college.
- Applicants who indicate on their application for admission that they are not seeking a degree from MSCD may change their status by completing a Change of Status Form and submitting all required transcripts to the Registrar's Office.
- The ACT or SAT is not required for admission but is highly recommended for advising 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 Registrar's Office of any changes to the application for admission prior to the first day of classes. If changes are not reported to the Registrar's Office, 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 are referred to the Admission of International Students section on page 25 in this *Catalog*.

To apply for admission:

- Applications are available from The Metropolitan State College of Denver, Admissions Office, Campus Box 16, P.O. Box 173362, Denver, CO 80217-3362, (303) 556-3058.
- A \$25 nonrefundable application fee (\$40 for international applicants) is required with the
 application for admission. The application fee does not apply to tuition and fees. Re-admit
 applicants do not have to pay this fee.

- Submit a completed application and application fee directly to the Admissions Office. The
 application and all required credentials (see Admission Requirements below) should be
 received at least four weeks prior to the first day of classes.
- It is the student's responsibility to request that all required credentials be mailed directly from
 the issuing institution or agency to the Admissions Office. Hand-carried documents will not be
 accepted.
- Although an applicant's record may be summarized on one transcript, official transcripts from each institution are required.
- The application for admission and all credentials received by the college will be kept on file
 for three semesters, after which time the file will no longer be maintained. Applicants wishing
 to attend MSCD must begin the admission process again.

Admission of Previously Enrolled Students

Former students or re-admit students are defined as individuals who have been accepted, have registered for a course, and have received a grade or grade notation at the college.

Former students who have not been in attendance at MSCD for one or more years should adhere to the following procedures:

- Submit a completed application for admission. Check the re-admission box on the top, right corner of the application. No application fee is required for re-admission.
- To ensure processing, the application and any required credentials should be received at least four weeks prior to the first day of classes of the semester for which admission is sought.
- Former students who have attended other collegiate institutions since last attending MSCD
 must follow the appropriate admission requirements for transfer students.
- Former students who are returning after nine years of absence from the college are required to
 resubmit all credentials. Only non-degree-seeking MSCD graduates do not have to resubmit
 credentials.

ADDITIONAL ADMISSION PROGRAMS

Summer Semester Only

Applicants less than 20 years of age who have graduated from high school or have received a General Educational Development (GED) certificate and are applying for the summer semester and who do not wish to continue after the summer semester may be admitted under a provisional status and are not required to submit admission credentials. Please check the appropriate box under the MSCD Plans section on the application for admission. Applicants applying for the summer semester and who wish to continue for the fall or spring semester must meet stated admission requirements before the semester begins.

HIGH SCHOOL CONCURRENT ENROLLMENT PROGRAMS (HIGH SCHOOL STUDENTS ONLY)

High School Student Education and Enrichment Program

The Student Education and Enrichment (SEE) program is The Metropolitan State College of Denver's High School Concurrent Enrollment Program for college-ready students. SEE 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 high school students. Typically, the SEE student:

- · is currently registered in a Colorado high school
- is maintaining a GPA of 3.0 or better
- is preferably in the senior year of high school
- · can benefit from specialized or accelerated classes
- has demonstrated the ability to do college-level work

To apply for admission, the student must, in consultation with the appropriate high school authority, submit to the Admissions Office an admission application with the required \$25 application fee accompanied by the following documents:

- recommendation from a high school counselor or administrator stating how the student will benefit from early college attendance
- · written parental approval
- · official high school transcript

Upon receipt of these documents, the student's record is reviewed and the admission decision is made. However, if additional or supporting information is required, the student may be required to have an admission interview with an admissions counselor. The admission decision will be based on the student's academic preparation and past performance, recommendation of the high school official, and the student's personal motivation and readiness for a traditional college experience.

Post-Secondary Enrollment Options Program

The Post-Secondary Enrollment Options Program (PSEOP) is a sponsorship program enacted by state law in 1988 that provides juniors and seniors in high school younger than 22 the opportunity to take college classes for both high school and college credit. The program is intended to provide high school students with an optional learning environment.

Under the terms of the program, the high school district agrees to pay for college tuition and the student is then responsible for college fees and books. Counseling offices in Colorado high schools are provided with PSEOP application packets that include instruction sheets, application forms, and billing authorization forms. Application deadlines are scheduled 45 days prior to the first day of classes every fall and spring semester. Specific deadlines and further information relative to this program and the application process may be obtained by calling the Admissions Office at (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 is designed to give special encouragement and assistance to retired citizens to continue their personal educational growth in a stimulating and friendly campus setting. For information and to enroll call the Office of Adult Learning Services at (303) 556-8342.

ADMISSION OF INTERNATIONAL STUDENTS

All students who declare a country of citizenship other than the U.S. on their applications for admission must contact the Registrar's Office.

- Admission of U.S. permanent residents (or refugees, political parolees, and political asylum cases, etc.) and students on temporary visas other than F-1 or J1:
 - ⇒ Official transcripts including secondary level education should be submitted four weeks prior to the beginning of the first day of classes of the semester for which admission is sought.
 - ⇒ Applicants may be required to pass an English proficiency examination.
 - Applicants may be required to register for and complete certain courses during their first two semesters.
- Admission of applicants on student (F-1 or J1) visas:

Applicants should submit an International Student Application for Admission and other required documentation. Students who are academically admissible and have met the minimum English proficiency and financial support requirements, will be issued the U.S. Immigration Form I-20. Questions regarding the admission of students from abroad or permanent residents should be directed to the Registrar's Office.

ENROLLMENT

READING, WRITING AND MATHEMATICS PLACEMENT EXAMINATIONS

All first-time college students are required to take a series of three exams before registering for their first-semester classes. The exams measure college entry-level skills in reading, writing, and mathematics, and the scores are used to help advisers and students select appropriate courses. For additional information call (303) 556-3677

ORIENTATION

New Student Orientation offers a mandatory orientation program for all first-time college students and transfer students under 20. Transfer students 20 and older, as well as parents and non-degree seeking students, are welcome at orientation sessions. More than 100 sessions per year are offered, catering to the specific needs of first-time college students, transfer students, women, and parents of traditional age freshmen. Sessions are scheduled on different days and at various times to accommodate the needs of our diverse commuter populations. Sessions are also offered at the North and South campuses to provide further flexibility. Orientation sessions cover a variety of topics including degree planning, academic concerns, students' rights and responsibilities, student support programs, commuter issues and an opportunity to ask and discuss individual questions. Students are provided with a packet of valuable information which includes a catalog, student handbook, general requirements brochure and brochures from many of the student support programs and services. Orientation is invaluable in laying a solid foundation for students' future academic success. Approximately 4,000 students and parents are served by this program each year. For further information see the *Class Schedule* or call 556-6168.

ACADEMIC ADVISING

All first-time-to-college students, initial transfer students, and students undecided about their majors are required to seek academic advising in the Academic Advising Center in order to register for classes. All students are encouraged to take advantage of advising services, which include: course scheduling; assistance in choosing a major; and ongoing developmental advising. Students who have decided on a major should meet with an adviser in their major department to plan their academic program and receive current materials. For additional information call (303) 556-3680.

TRANSFER CREDIT EVALUATION

Once all final official transcripts for degree-seeking students are received by the Registrar's Office, the evaluation process begins. Within approximately four weeks, students receive two copies of the transfer credit evaluation, one of which is taken to the major and minor departments for advice on how credits might apply to their programs.

Transfer credits will be accepted under the following guidelines:

- Credit must have been earned at an institution of higher education holding full regional accreditation.
- Grades earned must be "A," "B," "C," or equivalent. Courses with "D," "F," or similar grades
 will not be accepted in transfer. A summary of transfer credit from each institution will be indicated on the MSCD academic record. Neither transfer course grades nor previous grade point
 averages will be indicated or affect the MSCD grade point average.
- · Course content should be similar to those courses offered at MSCD.
- A maximum of 64 semester hours from two-year institutions will be accepted and applied toward a MSCD degree. A maximum of 90 semester hours of credit will be given for acceptable work completed at a four-year institution or a combination of two- and four-year institutions.
- Transferable courses are accepted at the same level, i.e., lower-division or upper-division, at
 which they were offered at the previous institution. For example, all transferred community
 college courses will apply to the MSCD degree as lower-division credit.
- Students who have earned an A.A. or A.S. degree 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 transcript, are considered to have satisfied The Metropolitan State College of Denver'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 re-admits to the college
 under more restrictive transfer credit evaluation policies.
- In accordance with policies established by the Colorado Commission on Higher Education to address student disputes regarding student transfer between Colorado public institutions, MSCD has instituted procedures for resolving transfer credit disputes. These procedures are available from a transfer evaluator in the Registrar's Office.

TRANSFER CENTER

The Transfer Center offers assistance to students transferring from other institutions. Specific services include preliminary transcript evaluation, educational planning, transition to academic departments, and resolution of transfer problems. Transfer counselors are available by appointments and for walk-ins; evening appointments are available. The Transfer Center works closely with Transcript Evaluation to provide students information about their transfer credits and how those credits may be applied.

Questions pertaining to transfer credit evaluation should be referred to the Office of Admissions, Central Classroom Building, room 120, (303) 556-3069.

REGISTRATION

All continuing students in good standing at the college are eligible to register each semester.

Students are responsible for ensuring that there is a correct and up-to-date address on file with the college. Address changes may be made with the Registrar's Office.

A student may register for classes in several ways. Information on the registration procedure and registration dates is published in the *Class Schedule*, which is mailed to all continuing students.

CONCURRENT ENROLLMENT

Students who find it necessary to be registered at MSCD and another college at the same time should check with MSCD advisers concerning the acceptance and application of transfer credits. Failure to do so may result in denial of transfer credit. Students concurrently enrolled are affected by the academic policies of MSCD, including the MSCD course load policy.

INTERINSTITUTIONAL REGISTRATION

Students enrolled at MSCD may register for courses at Arapahoe Community College, Community College of Denver, and Red Rocks Community College. 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 a 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.

ENROLLMENT STATUS

The enrollment status of the student at the host institution is determined by the student's status at the home institution (institution where the student is seeking a degree). Students should ascertain before enrolling at an institution that desired courses will satisfy degree requirements at the home institution.

Adams State College, Mesa State College, and Western State College together with MSCD form a system of state colleges. Each member institution can provide any student in good standing with the mate-

rials needed to enroll temporarily in any other member institution without incurring additional matriculation costs. Information concerning tuition is available at the host institution. The process of enrolling as a system student should begin at least one month prior to the beginning of the registration period at the host institution.

Information concerning current procedures for enrolling for courses at these other institutions is available from the Registrar's Office.

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. The cost for auditing a course is based on regular tuition as published in the current *Class Schedule*. Audit approval forms are available in departmental offices.

CHANGES IN REGISTRATION

Enrolled students may adjust schedules by dropping and/or adding classes. See the current *Class Schedule* for complete information concerning dropping and/or adding classes and the tuition and fee refund schedule.

Students who reduce their course load after the fourth week of classes and before the beginning of the fifth week will receive an "NC" notation for each course they have dropped and a refund, if applicable. 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. A 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 modular course, workshops, and summer terms. Procedures for adding or dropping a modular course after the course has begun are described in the current *Class Schedule*.

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 Classification Form and the evidence requested should 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 22 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 peculiar 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 published in the *Class Schedule* each semester.

Tuition and College Service Fees

The Board of Trustees of The State Colleges in Colorado, 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 is published in the current *Class Schedule*. Tuition and fees are payable at the time of registration.

Standard Fees

An application fee is required of all applicants 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	. \$25
Special fees	
Returned check charge	. \$17

TUITION ADJUSTMENTS

Please see the Class Schedule for the current semester.

STUDENT HEALTH INSURANCE

All full-time students* are required to participate in the college-sponsored student health insurance coverage unless proof can be provided that a student has comparable and valid outside health insurance coverage.**

Full-time students are automatically billed for student health insurance on their tuition bill under the insurance heading. Students who have outside insurance coverage are responsible for completing a waiver form by the deadline indicated in each semester's *Class Schedule* in order to have the insurance charge removed from their tuition bill (deadline changes from semester to semester). **Waiver forms will not be accepted after the deadline listed in each semester's** *Class Schedule*. It is the student's responsibility to become familiar with the college's policies and to adhere to the deadlines listed. No refunds will occur after the waiver deadline. Waiver forms and insurance brochures are available at either the Student Health Insurance Office located in the Student Health Center (PL 150) or the Student Accounts Office (CN 110).

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 (listed in the *Class Schedule*) for the semester they enroll and every fall semester thereafter. Waiver form information will be mailed to the home address of all full-time students prior to the semester of enrollment. A waiver form is also included in the back of the *Class Schedule*.

Students who request a waiver form to provide proof of valid outside health insurance must:

- Complete the student health insurance waiver form.
- Attach a copy of a valid health insurance card to the back of the waiver form. Students who
 have valid outside insurance but have not been issued an insurance card must include the main
 policy holder's name, the insurance company's name, and the name and phone number of a contact person or the appropriate department at the insurance company that can verify current
 health insurance coverage.
- Submit the waiver form by the deadline indicated in each semester's *Class Schedule* (deadline changes from semester to semester).

Note: Students who have not been issued a health insurance card by their insurance company are required to pay for the student health insurance when they pay their tuition and fees. Once outside health coverage is verified, the insurance fee will be refunded to the student. The time it takes to verify coverage varies, depending on processing demands and insurance carrier responsiveness.

All covered services at the Student Health Center are paid at 100 percent with no payment at the time of

service, no deductible, and no need for claim forms. The pre-existing condition exclusion clause is waived for services performed. Please see the current Student Health Insurance Brochure for a summary of the plan benefits, requirements, and exclusions. Brochures can be obtained at the Student Health Center.

Dependents of a student participating in the student health insurance program are also eligible for optional insurance coverage. However, dependents are not eligible to use the Student Health Center for their medical care. In addition, 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 in the summer *Class Schedule*. This option also applies to seniors who graduate in the spring. Students with questions regarding student health insurance should contact the Student Insurance Office.

*For insurance purposes, at least 10 credit hours is considered full-time for fall and spring semesters, and eight credit hours is considered full-time during the summer semester.

**Individual insurance plans that are not required to meet state and federal benefit mandates are not considered comparable and consequently will not be considered proof of comparable coverage. As of May 1, 1997, it is anticipated that in the fall semester of 1998 the "Colorado Resident Discount Program" 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.

STUDENT HEALTH INSURANCE Voluntary Program for Part-Time Students

Based on the mandatory insurance requirement which the college has adopted, the Student Insurance Carrier has permitted the college to offer the following Voluntary Health Insurance Program to part-time students. This program is exclusively for part-time students taking 6-9 credit hours in the fall and/or spring semester(s) and 6-7 credit hours during the summer semester. Students taking more or less credit hours than indicated above are NOT eligible for this voluntary program.

The Voluntary Plan has the same deadlines (as listed in the *Class Schedule*), plan design, cost and benefit levels as does the mandatory insurance plan referenced in the previous section. Part-time students interested in the voluntary option should contact the Student Insurance Office at 556-3873 for application details.

STUDENT DENTAL INSURANCE Voluntary Program for all Students

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

FINANCIAL AID

The MSCD 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 1997-98 academic year expenses are as follows:

	Resident	Nonresident
Tuition and Fees	\$2,690	\$7,680
Room and Board	6,895	6,895
Books and Supplies.	650	650
Transportation	1080	1080
Miscellaneous	1,260	1,260
	\$12,575	\$17,565

Tuition and fees are set by The State Colleges in Colorado and are subject to change without notice. All students are placed on a single-person budget. Additional allowances are made for students with day-care costs for dependent children and for expenses related to disabilities not paid by another agency (P.L. 99-498).

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-, 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 grant.

APPLICATION PROCEDURES

Students must complete the Free Application for Federal Student Aid (FAFSA) each year to determine financial aid eligibility. Returning MSCD students may request application forms from the Office of Financial Aid. Transfer students can obtain application forms from their current college or university. Entering college freshmen should obtain application forms from their high schools or from the MSCD Office of Financial Aid. Some returning students will receive a Renewal Application directly from the federal government and that should be completed and mailed in place of a new FAFSA. Students should mail forms as early as possible, preferably no later than mid-February, in order to meet the priority deadline of March 1. Transferring applicants must supply the MSCD Office of Financial Aid with financial aid transcripts from all schools previously attended. Detailed information concerning application procedures is provided in the Financial Aid Handbook available in the MSCD Office of Financial Aid.

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 may be 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 1997(98 academic year will range from \$400 to \$2,700 for those students who qualify. Full-time, half-time, or less than half-time students may qualify for a Federal Pell Grant.

Federal Supplemental Educational Opportunity Grants (FSEOG) are federal funds awarded to undergraduate students who have not yet received a bachelor's degree and are U.S. citizens or eligible non-citizens. This grant is awarded to students who demonstrate exceptional need. The amount of FSEOG awards ranges from \$100 to \$1,000.

Colorado State Grants (CSG) are state funds awarded to Colorado residents with eligibility determined by the Office of Financial Aid. Eligible students have no prior bachelor's degree, are U.S. citizens or eligible non-citizens, and are enrolled either full- or part-time at MSCD. The amount of the CSG award ranges from \$50 to \$2,000. CSG funds are available to part-time students who demonstrate need and are enrolled a minimum of six hours.

Colorado Student Incentive Grants (CSIG) are a combination of federal and state funds awarded by the same criteria as CSG. Students must be enrolled full-time to receive CSIG funds.

Scholarships

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 grant to receive a scholarship.

Presidential Scholarships: These scholarships include four-year scholarships for entering high school students and two-year scholarships for transfer students. This scholarship covers the cost of tuition and mandatory fees per semester.

Colorado Scholarships: Scholarships of up to \$500 per semester, not exceeding the cost of resident tuition and mandatory fees per academic year, are available through the academic departments. Recipients must be Colorado residents. Interested students should contact their departments for applications.

Athletic Scholarships: MSCD has a limited number of athletic scholarships. Applications and additional information are available from the MSCD Intercollegiate Athletics Office.

Private Scholarships: Students should refer to the MSCD Scholarship Guide for information about some of the scholarships and the free on-line scholarship search.

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 of aid which 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 which are awarded based on the student's need and MSCD's available funds. Federal Perkins Loan awards can range from \$100 to \$3,000. Repayment of the loan begins nine months after the student graduates or ceases to be enrolled at least half-time in school. The interest rate is 5 percent and interest begins to accrue at repayment. All first-time borrowers at MSCD are required to attend a Perkins Loan Entrance Interview before loan funds can be released to them.

Family Education Loans 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, in addition to the FAFSA, a separate lender application to the Office of Financial Aid. Loan applications may be obtained from the Office of Financial Aid or the lender of the student's choice. Students must be enrolled at least half-time and be degree-, certificate- or licensure-seeking. 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 with the Office of Financial Aid or the lender. First time borrowers are required to attend a Loan Entrance Interview before loans funds can be released to them.

Federal Stafford Loans: Eligibility for the Federal Stafford Loan is based on the student's need as determined by the Office of Financial Aid. The annual loan limits are \$2,625 for freshmen, \$3,500 for sophomores, and \$5,500 for all other undergraduates. Interest does not begin to accrue until six months after the student graduates or ceases to be enrolled in school at least half-time.

Unsubsidized Federal Stafford Loans: This loan has 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 graduates or cease to be enrolled in school at least half-time. Students who do not qualify for a Federal Stafford Loan, based on need, may qualify for the unsubsidized Stafford Loan. Contact the Office of Financial Aid for information concerning annual loan limits.

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

Please refer to the Financial Aid Handbook for more detailed information regarding educational loans.

College Work-Study

The State of Colorado, the federal government, and MSCD provide part-time employment programs for students. Work-study awards range from \$2000 to \$5,000 per fiscal year. The average award is \$1,250/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. The majority of all work-study awards are need-However, there are a limited number of positions offered directly through various departments/offices on campus 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 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 mailed an Award Notification. The Award Notification and enclosed information stipulate the conditions of each award.

Disbursement Procedures:

- 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 by the Office of Financial Aid. Once this money has disbursed into the student's account and the tuition and fees bill has been paid, the Business Office will issue the student a refund check for any remaining balance. The balance from the student's financial aid award (student's refund check) can be used to purchase books, pay rent, buy food, etc.
- Parent Loans: Federal PLUS checks are mailed from lenders to MSCD's Office of Financial Aid. Eligibility is verified and then the check is mailed to the parent borrower.
- Work Study: Work-study earnings are paid monthly 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.
- All other aid is disbursed to the student's account. MSCD's 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 cashiers window.

REPAYMENT POLICY

Students who receive financial aid and withdraw from MSCD prior to completion of a term will 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.

FINANCIAL AID AS A FORM OF PAYMENT

Students may use expected financial aid awards to defer payment of current tuition and fees beyond the published payment deadline. Review the current Class Schedule for more detailed information.

SPECIAL PROGRAMS

CHILD DEVELOPMENT CENTER

The Child Development Center provides exemplary, on-campus children's programs. During the fall and spring semesters, the center offers pre-school programs; in the summer it provides a Summer Enrichment Program for elementary age children. Available to the Auraria campus and to the Denver community, these programs are part of the college's teacher education program.

The classrooms are under the direction of master teachers who are trained and experienced in either early childhood or elementary education. The master teachers plan an age-appropriate program to provide quality learning experiences that meet the developmental needs of the children. MSCD teacher education students also work in the classroom providing a high adult/child ratio with opportunities for small groups and individual attention.

The preschool program is accredited by the National Academy for Early Childhood Education. There are two preschool classes available: 8:30–11:30 a.m. for children 2:1/2 to 4 years old and 12:30–3:30 p.m. for children 4 to 6 years old. There is also one hour of child care available before and after each preschool class.

The Summer Enrichment Program is academic in content, but recognizes children's needs for fun and different learning experiences in summer. There are two classrooms: one for children entering kindergarten or first grade in the fall and one for children entering second or third grade in the fall. There is a Day Program from 9 a.m. to 3:30 p.m. and an Extended Program from 7 to 9 a.m. and from 3:30 to 6 p.m. Call (303) 556-2759 for more information.

THE FIRST-YEAR PROGRAM

The First-Year Program is designed to unify and coordinate college efforts to help entering students achieve a successful first year. The program provides intensive advising, course selection guidance, and academic monitoring throughout the first year, as well as coordinating academic support services for first year students. Additionally, the program offers a First-Year Seminar course, XXX 1190, which provides appropriate readings and written work enabling students to discuss and write about current issues including the value of higher education. All first-time MSCD students may enroll in the First-Year Seminar course and other appropriate courses as determined by assessment at entry. The program furnishes an environment where problem solving, creativity, and peer interaction are encouraged. For additional information call (303) 556-8447.

HEALTH CAREERS SCIENCE PROGRAM

The Health Careers Science Program is designed to encourage women and ethnic minority groups who have traditionally been excluded from careers in science and technology. Students are provided with tutoring and other support to ensure their success in the science and technology areas. For more information call (303) 556-3215.

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. Basic academic skill preparation in reading, writing, and mathematics is part of a comprehensive counseling and enrichment program. 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 Schools).

THE HONORS PROGRAM

The Honors Program provides an intense, interdisciplinary academic program for highly motivated students whose capabilities suggest a broader spectrum of needs and interests. The program encourages individuality by responding to the diverse educational needs of students. Its integrated approach strengthens the program's foundation and provides a cross section of thought-provoking perspectives. Honors students realize their learning potential through creative inquiry, independent thought, and crit-

ical examination. Honors professors serve as mentors to guide students in fulfilling their intellectual pursuits and dreams. Finally, while the Honors Program encourages independent thought and individuality, it also inspires students to work together, forming a community of scholars who learn from one another. Classes are generally small to ensure the exchange of knowledge and philosophies.

Available to students are both the honors core and a number of departmental honors courses. There are three Honors Awards available: Junior Honors Award (15 semester hours); Senior Honors Award (15 semester hours that include a thesis or senior seminar); and an Honors Program designation on the diploma (27 semester hours).

An Honors application form may be obtained from the Honors Program director. In addition to the application form, an interview by the Honors Council is required of prospective honors students. It is highly recommended that all Honors Program applications be completed by mid-July. Furthermore, there are a number of Colorado scholarships available. Additional information on the Honors Program is available by calling (303) 556-4865, or by inquiring in Central Classroom Building, room 101B. The Honors Program director reports to the Associate Vice President of Academic Affairs for Curriculum and Programs.

Required Honors Core	Sen	nester	Hours			
HON 2750 The Legacy of Arts and Letters I*			3			
HON 2760 The Legacy of Arts and Letters II*			3			
HON 2950 The Art of Critical Thinking*			3			
HON 3800 Revolutions and Social Change I*			3			
HON 3810 Revolutions and Social Change II*						
HON 3850 American Culture I*			3			
HON 3860 American Culture II*			3			
HON 4920 Senior Honors Seminar			3			
HON 4950 Senior Honors Thesis			3			
Total Hours for Honors Core			27			
*Approved General Studies courses.						

EDUCATION ABROAD

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, a summer intensive language institute in Germany, 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 and the Institute for International and Intercultural Education.

STUDY-ABROAD TRIPS

Short-term, study-abroad experiences during the summer are offered each year. These trips are always led by a full-time professor and are usually for two to four weeks in length. Academic credit is normally available. In past summers, study-abroad trips have been made to China, Egypt, England, France, Israel, Italy, Mexico, Peru, Russia, Spain, and West Africa. Contact the coordinator of International Studies at (303) 556-3173 for information about forthcoming trips.

SEMESTER-ABROAD PROGRAMS

Two semester-abroad programs, in London, England, and in Guadalajara, Mexico, operate each year. Students who are in good academic standing and believe they could benefit from a semester of study in England or Mexico should contact the coordinator of International Studies at (303) 556-3173.

VETERANS UPWARD BOUND

Veterans Upward Bound is a federally funded program designed to identify, recruit, and motivate veterans to pursue their personal career goals through higher education.

Veterans Upward Bound provides refresher courses and tutorial help so that survival in academic or vocational/technical programs is maximized. This is accomplished during a 12-week semester. Ancillary services such as career counseling, financial aid advisement, college counseling, and job placement are also provided for participants.

ALTERNATIVE CREDIT OPTIONS

CREDIT FOR PRIOR LEARNING OPTIONS

Successful completion of special examinations, completion of 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 type of approved credit will be posted to the student's record after the completion of 8 semester hours of classroom (resident) credit. 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.

ADVANCED PLACEMENT EXAMINATIONS

Students who have performed satisfactorily in special college-level courses while in high school, and who have passed appropriate advanced placement examinations conducted by the College Entrance Examination Board, may have official AP scores submitted directly to the Registrar's Office 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.

INTERNATIONAL BACCALAUREATE

MSCD recognizes the greater potential for success of international baccalaureate students. Accordingly, academic departments may award credit for demonstrated proficiency on a case-by-case basis. Students who have international baccalaureate results at the higher level may have an official transcript sent directly to the Registrar's Office for consideration for college credit.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

For the past 20 years, the College Board has offered CLEP, a program of examinations designed to evaluate nonaccredited college-level learning in order to award credit for successful demonstration of this knowledge. CLEP consists of two series of examinations: the general examinations and the subject examinations.

The general examination series includes five separate examinations covering the areas of English composition, humanities, natural sciences, mathematics, and social science/history. Based on the results of these examinations, the college may award up to a maximum of 30 semester hours of credit in the freshman General Studies requirement areas. Thus, the successful student may test out of many of the traditional courses required during the freshman year. MSCD does not allow CLEP credit for ENG 1020, the Freshman Composition: Analysis, Research, and Documentation course.

The subject examination series consists of more than 45 examinations that apply to specific college courses. MSCD allows credit for 15 of these examinations. Thirty semester hours of credit also may be awarded under this series, making a total of 60 semester hours of credit obtainable under a combination of the two series of examinations.

Credit obtained under CLEP at another institution will be re-evaluated according to MSCD CLEP policies.

Contact the coordinator at (303) 556-3677 for complete information about this program before registering to take any of these exams.

ATTAINMENT EXAMINATIONS

Any student may take attainment examinations in certain departments for the purpose of waiving specific graduation requirements. Passing such an examination, although not reducing 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 COURSE EXAMINATIONS

In special cases, a department may grant students credit toward graduation for college courses in which they request and pass special college examinations. Under this provision, a maximum of 30 semester hours of credit may be awarded by the college. A fee of \$15 per semester credit hour will be charged.

Examinations for credit must be based on work equivalent to a regular course offered by the college (omnibus-numbered courses are excluded). The credit granted will be for the corresponding course, provided the student has no previous collegiate enrollment for a similar course and the credit is applicable toward the student's graduation requirements. Evidence of work justifying an examination for credit must be presented to the department chair no later than the third week of classes in a semester. Permission for such examination must be secured in advance from the appropriate dean upon recommendation of the department chair.

No application for credit by examination will be approved for a student who is not currently enrolled in good standing in a degree-seeking curriculum in the college. Credit by examination will not be approved for a student who is within 12 classroom semester hours of completing degree requirements. No credit by examination can be obtained for a course in which a student has been officially enrolled at MSCD or at another institution, whether or not the course has been completed and a grade awarded. Credit by examination cannot be obtained for college courses attended as a listener, visitor, or auditor.

If a student has completed a more advanced course than the course for which examination credit is desired, permission to take the exam will be granted if approved by the appropriate department chair and dean. If a student has already completed a sequence of courses, no examination credit can be given for courses lower in number than the highest-numbered course taken by the student. If a student has registered for a higher-numbered course in a sequence, the exam for the lower-numbered course must be completed within the first three weeks of the semester. Exceptions must be appealed to the Board of Academic Standards Exceptions following endorsement of the department chair or dean. Examinations cannot be taken to raise grades, to remove failures, or to remove "NC," "SP," or "I" notations. Credit by examination is not applicable toward academic residence requirements.

Examination for credit will be taken at a time specified by the department after the special examination fee has been paid. No examination for credit in a college course may be repeated. A grade equivalent to "A" or "B" must be attained on the examination in order to receive credit, but credit so earned for the course will be recorded without grade reference on the student's permanent record. Credits in courses for which credit is earned by examination are not considered in computing college grade point averages. Credit by examination will be posted after a student has completed 8 semester hours of credit at MSCD and after an evaluation of all possible transfer credits has been completed.

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.

The portfolio is developed with the assistance of the Office of Adult Learning Services. Portfolio assessment may be used to apply for credit for specific courses listed in the *Catalog*; credit is not available for courses which are considered omnibus courses. Applicants for credit through portfolio assessment will generally be required to take EDS 2680-1, The Portfolio Development Workshop.

A fee of one-half the part-time student tuition is charged for credit awarded through portfolio assessment; \$40 of the total fee is due prior to the assessment of the portfolio by faculty. The remainder of the fee is due if and when credit is awarded. Policies which govern credit for prior learning options apply to credit awarded through the portfolio process.

Contact the Office of Adult Learning Services for assistance and further information at (303) 556-8342. Information sessions about portfolio assessment and other credit for prior learning options are held on a regular basis by the Office of Adult Learning Services.

CREDIT FOR MILITARY TRAINING AND OTHER TRAINING PROGRAMS

Military training and other training programs that have been assessed for college credit by the American Council on Education will be evaluated by the Registrar's Office for transfer credit at MSCD. For formal military training, copies of training certificates and a copy of the DD-214 should be submitted to the Registrar's Office. For other training, official ACE transcripts should be submitted. Credit limit is 30 semester hours.

COOPERATIVE EDUCATION

The Cooperative Education Internship Center places students in work experiences related to their academic major. 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.

Co-op internship placements are available in most academic majors and minors. Students must complete 30 semester hours of college coursework 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.

SERVICE-LEARNING

The Service-Learning Program combines classroom experience with service to the metropolitan community. 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, and numerous elementary and high schools, 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.

ACADEMIC POLICIES AND PROCEDURES

SEMESTER HOURS CREDIT

Course credit is based on units designed as semester hours. One semester hour or one base contact hour equals a minimum of 750 minutes; this translates to a minimum of 15, 50-minute class hours per semester. Time required for class preparation is not a consideration in the calculation of course credit. 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. 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. 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. Authorization for overloads in excess of 21 semester hours for fall and spring and 14 semester hours for summer must be obtained from the Office of Academic Affairs. Forms are available in the department or deans' offices.

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 A MAJOR

Applicants to The Metropolitan State College of Denver may indicate their intended major on the MSCD Application for Admission. Non-degree-seeking students who wish to declare a major must first change to degree-seeking status by completing a Change of Status form with the Registrar's Office.

CHANGING A MAJOR

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.

GRADUATION AGREEMENT

Degree-seeking students formally declare their degree plan by filing a Graduation Agreement. The agreement should be submitted to the Registrar's Office *two years* prior to the intended term of graduation but no later than the appropriate deadline stated in the *Class Schedule*.

Students should complete their Graduation Agreement in consultation with department adviser. When it is ready for signatures and a formal evaluation, students should submit the completed agreement to the minor department. The minor department will forward the signed agreement to the major department for signature; the major department will forward it to the dean of the school. The school will submit the agreement to the Registrar's Office for final review. Once approved, and after the completion of each subsequent semester of academic work, the student will receive an up-to-date Academic Status Report.

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. A formal commencement ceremony is held at the end of the spring and fall semesters. Completion of two majors does not result in two degrees or diplomas.

TRANSCRIPTS OF RECORDS

A transcript is a certified copy of a student's permanent record and shows the academic status of the student at time of issuance. Except for faxed transcripts, there is no charge. 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 stu-

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dent's full 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. Transcripts from other institutions that are on file in the Registrar's Office will be issued upon signed request by the student. A charge of \$5 per request is assessed for this service. Students from other institutions taking MSCD courses under the state college system or interinstitutional registration programs must request transcripts from their home institution.

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. 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 Vice President'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. Posting of the award occurs after the student receives their semester grade report. Questions should be directed to the Office of Academic Affairs at (303) 556-3907.

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, GPA 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 summer, fall, and spring graduates.
- To qualify for graduation honors recognition, a student must have completed a minimum of 50 semester hours of classroom 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) 556-3907.

GRADES AND NOTATIONS

Grades

O' Hades
Alphabetical grades and status symbols are as follows:
"A" — Superior 4 quality points per semester hour attempted
"B" — Above Average
"C" — Average
"D" — Below Average but Passing 1 quality point per semester hour attempted
"F" — Failure
Notations
"I" –Incomplete
"NC" –
"S" – Satisfactory (limited to student teaching and HPS/LES 4890 internships)
"p" _ Page

"X" - Grade assignment pending. Student must see faculty for an explanation or assignment of grade. Courses taken through interinstitutional registration are normally assigned the "X" notation until grades are received and posted to the academic record.

The "I" notation may be assigned when a student was unable to take the final examination and/or did not complete all the out-of-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 calendar year, the "I" notation will change to an "F." Registering in a subsequent semester for a course in which an "I" has been received will not remove the "I" notation. The "I" notation may not be awarded in a self-paced course.

The "NC" notation is not a grade. It may indicate withdrawal from the course or course repetition. The "NC" notation may also be used in self-paced courses to indicate that the student and/or the faculty have decided to extend the student's exposure to the course to increase the student's proficiency. To earn credit, the student must re-register for and pay for the course in a subsequent term.

The following minimal requirements are required throughout the college and are a part of all school, departmental, or individual faculty policies:

- The "NC" notation is available to students in all instances through the fourth week of classes for fall and spring terms.
- 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).
- Student requests for an "NC" notation in a given course will not be granted after the tenth week
 of the fall and spring semesters. The "I" notation may be used during this period, provided the
 conditions specified above apply.
- Proportional time frames are applied for modular courses, weekend courses, workshops, and summer terms.
- 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.

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 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 notations "NC" "I," "S," and "P" have no effect on the GPA.

PASS-FAIL OPTION

The pass-fail option encourages students to broaden their educational experience by taking courses outside their major and minor fields. The pass notation has no effect on the GPA; the fail notation is equivalent to the grade of "F."

Students who have completed at least one MSCD course with at least a 2.0 cumulative GPA may choose to be evaluated for a certain course on a pass-fail basis rather than by letter grade. The pass-fail option may be used for general elective credit only. Major, minor, General Studies, and other courses required for a degree or 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 these ungraded courses is 18 semester hours, earned in no more than six courses, limited to one course per semester or module.

Students must declare interest in the pass-fail option no later than the last day to add classes (during the first 15 percent of the total time frame of the semester) for a particular semester or module by contacting the Registrar's Office. The instructor will assign and record the pass-fail grade on a final grade list that identifies students electing and eligible for pass-fail grading. Students who request the option who are later declared ineligible will receive notification from the Registrar's Office during the semester. They will be assigned a regular letter grade in the course. Once approved, the request for the pass-fail option is irrevocable.

Some institutions do not accept credits for courses in which a pass notation is given. Therefore, students who plan to transfer or take graduate work should determine whether the institution of their choice will accept the credit before registering for courses under the pass-fail option.

REPEATED COURSES (LAST GRADE STANDS)

A student may repeat any course taken at MSCD regardless of the original grade earned. By doing so, only the credit and the grade for the latest attempt at the course will remain on the student's MSCD academic record. The grade for the prior attempt(s) will be changed to the "NC" notation. The courses must carry the same title, course number, and semester hours. To effect such a change, the student must reregister and pay tuition for the course in question, complete the course with a letter grade, and complete the necessary form in the Registrar's Office indicating that the course has been repeated. Otherwise, the grade change will be made administratively at the time of degree evaluation or earlier. Credit duplication involving transfer, interinstitutional, or state college system courses may result in transfer credit being disallowed. A failing course grade assigned as a result of academic dishonesty is considered a permanent "F" and is not subject to this policy. A student may not repeat a course after the award of a MSCD degree to make use of this policy.

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 third 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 Student Rights and Responsibilities section of the 1994-1996 Student Handbook. The handbook may be obtained from the Office of Student Services. All decisions of the Grade Appeal Committee will be reviewed by the associate vice president for academic affairs.

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 the Academic Exceptions Program (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 the Academic Exceptions Program. The director of the Academic Exceptions Program 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 readmitted 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 556-4048 for further information.

STUDENT RIGHTS AND RESPONSIBILITIES

POLICIES AND PROCEDURES

Generally, the policies and procedures contained in this *Catalog* must be followed by students officially enrolling for the 1997 fall semester and the 1998 spring and summer semesters.

EXCEPTIONS

Students may appeal to the Board of Academic Standards Exceptions to request a variance from college academic requirements. Their graduation agreement should be completed before the appeal. Valid reasons for variances must accompany all petitions, and the petitions must be signed by the appropriate dean and department chair.

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 Central Classroom Building, room 313.

CLASS ATTENDANCE

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 Student Rights and Responsibilities section of 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.

PREPARATORY COURSE CREDIT POLICY

No preparatory courses are applicable toward an MSCD degree after spring 1993. For details, please see an adviser in the Academic Advising Center.

SERVICES FOR STUDENTS

ACADEMIC ADVISING

All first-time-to-college students, initial transfer students, and students undecided about their majors are required to seek academic advising in the Academic Advising Center in order to register for classes. All students are encouraged to take advantage of MSCD's advising services which include: course scheduling; assistance in choosing a major; and ongoing developmental advising. Students who have decided on a major should meet with an adviser in their major department to plan their academic program and receive current materials. For additional information call (303) 556-3680.

ADULT LEARNING SERVICES

Adults entering or returning to college often have questions and problems that are different from those of younger students. Adults who would like help re-entering the formal education system and planning their educational goals may contact the Office of Adult Learning Services at (303) 556-8342.

CAREER SERVICES

Career Services offers assistance to students and alumni in planning their careers, finding off-campus jobs while enrolled, and seeking employment upon graduation. Specific services include career interest testing, personality testing, and workshops focused on career planning, resume preparation, job search strategies, and interviewing skills. Professional counselors are available for appointments. The student employment service and job vacancy listings are also housed in the Career Services Center.

The Career Library contains resources to help with career planning and the job search process. Information such as employer directories, salary surveys, and career assessment resources are available.

The Colorado Career Information Center is a computerized guidance system located in the Career Library. Trained advisers offer assistance in its use. This system includes specific occupation information for Colorado, career assessment inventories with immediate results, and nationwide college information. Services are available by appointment at (303) 556-2246.

COUNSELING CENTER

The Counseling Center is a full service, accredited center staffed by professionals who offer a wide array of services at little or no charge to the MSCD campus community. The Center is fully accredited by the International Association of Counseling Services. All records are strictly confidential. Services include:

Individual Counseling: The center offers short-term counseling on personal, relationship, and educational concerns during one to one sessions; sessions are free to MSCD students. Students will be interviewed to assess their needs when they first visit the center. An appointment is not necessary for an initial meeting; students may drop in anytime between 9-12 or 1-4 Monday through Thursday. Psychiatric services are available by referral at reasonable or no charge for students seeing a counselor at the center. Other referrals may be made to off-campus resources if it is determined to be in the best interest of the student.

Workshops and Group Sessions: Group sessions are free to all MSCD students, faculty, and staff. Topics include: test anxiety, assertiveness, parenting, self-esteem, relationships, family issues, support groups, and a variety of multicultural issues. A brochure of new topics is available at the center. A new brochure is produced at the beginning of each semester.

MSCD Connections Peer Educators Program: A peer educator is an upper-division student who can address personal and college concerns of students enrolled in the First-Year Experience classes. The peer educator acts as a resource to students and can assist students with "short cuts" to sometimes lengthy college procedures such as financial and registration problems. Students interested in being a peer educator should contact the Center

MSCD Alternatives Substance Abuse Prevention: This program works actively with campus departments and community agencies to offer substance abuse programs for students, faculty, and staff. Programs include National Collegiate Alcohol and Drug Awareness Week and Safe Spring Break.

<u>Consultation</u>: Staff members at the center are available for free consultation to MSCD faculty, staff, and student groups or clubs. Consultations can be one-to-one or meetings with a department, unit, or club. Common topics of consultation include: diversity, communication, conflict, etc.

<u>Diversity Services</u>: The center offers individual and group counseling, workshops, lectures, consultation to departments and individuals on the issues of race, gender, sexual orientation, disabilities, and more.

The Counseling Center is located in CN 203 and is open 8:00 a.m. to 5:00 p.m., Monday through Friday. The center will move to Tivoli 651 during Fall, 1997. More information is available at (303) 556-3132.

DISABLED STUDENT SERVICES

The Auraria Office of Disabled Student Services provides academic support services to disabled students at MSCD and the University of Colorado at Denver. Services include an adaptive computer lab, testing accommodations, note-taking services, taping services, student advocacy, sign language and oral interpreters, orientation for incoming students, priority registration, limited tutoring, sale of parking permits, and a resource and referral library.

ENGLISH AS A SECOND LANGUAGE/IMMIGRANT AND REFUGEE SERVICES

The English as a Second Language program provides assistance to students for whom English is a second language. The program provides assessment, tutoring, intensive academic and personal advising, and assistance with financial aid forms. The program also refers students with limited English proficiency to the appropriate curricula and monitors student progress. For more information call (303) 556-2533.

THE SPRING INTERNATIONAL LANGUAGE CENTER AT AURARIA

Intensive English classes at the Spring International 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 standardized evaluation tests 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.

GAY, LESBIAN AND BISEXUAL STUDENT SERVICES

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

- support for members of the campus community who may have questions about their own sexual orientation or that of a friend or family member
- advocacy for students experiencing discrimination or harassment based on a real or perceived gay, lesbian, or bisexual identity
- speakers for events, workshops, and classes on various aspects of sexual orientation and gay, lesbian or bisexual life
- training programs and workshops about working more effectively with the gay, lesbian, and bisexual communities and combating homophobia
- programs such as Gay, Lesbian, Bisexual Awareness Week and other forums providing information and dialogue about gay, lesbian, and bisexual issues

The GLB Student Services office is located in the Tivoli Student Union, room 311, and is staffed by a professional coordinator with the support of student employees and volunteers. Input and involvement from the entire campus community is welcomed. For additional information call (303) 556-6333.

INSTITUTE FOR INTERNATIONAL AND INTERCULTURAL EDUCATION

The college provides assistance to visiting faculty and international students. Important information and counseling is offered on visas, school transfers, work permission, housing, banking, and cultural and academic adaptation. The office also provides assistance to students who wish to arrange individualized study-abroad opportunities. The institute organizes numerous conferences and lectures on international issues throughout the year.

The institute also provides information on cross-disciplinary individualized degree major and minor programs in international studies, international courses offered by various departments, and intercultural courses. For information, contact the director of International and Intercultural Education at (303) 556-4004.

STUDENT DEVELOPMENT CENTER

The mission of the Student Development Center is to significantly improve the academic and intellectual achievements of students by providing comprehensive and individualized services that will lead to improved student retention and increased graduate rates. Services include: academic, personal, transitional, and social counseling; peer advising; mentoring programs; leadership development; multicultural programs and opportunities; workshops, forums, and discussion groups; and advocacy and referral services. Through Project Follow-Up, the center provides personal outreach to students who have been accepted to MSCD and need information and support in the initial processes of scheduling orientation, assessment tests, advising and financial aid.

STUDENT FINANCE RESOURCE CENTER (SFRC)

The Student Finance Resource Center offers the following:

- · short-term student loans
- · financial planning
- · budgeting workshops
- · individual budgeting sessions
- · credit union enrollment
- · tuition deferral budgeting
- · student travel

The SFRC is committed to providing students with the means to solve temporary and long-term financial problems by guiding and educating them in the area of college financing (i.e., budgeting, financial planning, emergency funding and travel). The Student Travel Program offers financial and planning assistance for clubs, student organizations, and individual students presenting papers at conferences and events within the domestic United States.

STUDENT HEALTH CENTER

All MSCD students are entitled to medical services at the Health Center. Student health insurance is **NOT** required to use the Health Center. Physicians, physician assistants, nurse practitioners and nurses 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. In addition, students are required to complete a patient information sheet annually and a health history form biannually. Brief office visits are free for all MSCD students. Limited, extended, detailed, and comprehensive office visits; physicals; supplies; medications; tests; lab work; and procedures are available at reasonable charges. *Payment is required at the time of service*.

Services include treatment of illness and injuries, lab testing, medications, physicals, annual GYN 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 access. Classes regarding health-related topics are taught each semester.

Walk-in services begin at 8 a.m., Monday - Friday. Access is on a first-come, first-served basis. 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 check in as early as possible. The Student Health Center is located in the Plaza Building, room 140, on the lower level. Brochures with additional information are available at the Health Center. For further details call (303) 556-2525.

STUDENT INTERVENTION SERVICES

Student Intervention Services (SIS) monitors all students whose cumulative GPA is below a 2.0 for one, two, or three semesters. Students are notified by mail of their status, and encumbrances are placed on their registration. SIS also coordinates the Early Warning System, providing mid-term grade assessments, support, and referral services to students. For those students who are in academic difficulty, SIS provides an in-depth strategy for success including assistance with graduation plans, scheduling, and advising. The office is located in Central Classroom Building, Room 102, (303) 556-4048.

STUDENT SUPPORT SERVICES PROGRAM

The purpose of the Student Support Services Program is to provide educational assistance for selected students who may otherwise be denied a chance for participation in higher education programs. Academic assistance is provided for students on the basis of individual need. Courses in English and reading are offered for college credit, coupled with tutorial assistance. These courses are designed to strengthen and supplement a student's basic educational skills so that the student may better address the requirements of a college course load. Other supportive services available are counseling, testing, assistance with financial aid forms, and, when possible, assistance in attending social and cultural events to enhance the student's experience.

SUMMER BRIDGE/MENTORING PROGRAMS

The Summer Bridge Program encourages students who have just graduated from inter-city high schools to take a three credit class and attend a series of activities, seminars, and workshops that further encourage their bonding to a postsecondary institution.

The Mentoring Program is a campus-wide program which matches incoming and upper-level students. Social and educational initiatives are included, small group activities are offered. This year's plans include training workshops, cultural events and individualized services to mentors and students. Call 556-4737 for more information.

TRI-INSTITUTIONAL STUDENT LEGAL SERVICES

Tri-Institutional Legal Services is a student-fee funded program that serves registered students from The Metropolitan State College of Denver, the University of Colorado at Denver, and the Community College of Denver. The program is staffed by a licensed attorney who assists students with landlord-tenant problems, criminal prosecutions, traffic/DUI cases, and family/domestic issues. Specifically, the attorney engages in a problem-solving process with the student to develop and explore various legal strategies and options. If a case requires legal representation and/or is beyond the expertise of the program's attorney, the office will provide to the student information about community resources that may provide legal representation either on a no-cost or low-cost basis, depending upon the substantive area and the availability of attorneys. Because the program's budget only allows for 20 hours per week of the attorney's time, the office should be contacted to ensure an office visit or phone interview. Please note: this office is unable to advise on issues arising between students or involving any of the three institutions as this creates a conflict of interest. The attorney can neither represent the student nor make a court appearance on the student's behalf. The office is not staffed to respond to emergencies. More information is available at the Tivoli Student Union, room 308, or call 556-6061.

TUTORING CENTER

The Tutoring Center provides free tutoring assistance for all students enrolled at MSCD. The center is structured to accommodate the needs of culturally diverse students. Students may be referred to the Tutoring Center by an instructor, or can seek assistance on their own. Trained peer tutors will help students reach their educational goals. Group, individualized, and walk-in tutoring is available. The center is open weekend and evening hours also. The office is located in the St. Francis Center, second floor, (303) 556-8472.

VETERANS SERVICES

The Veterans Services Office is designed to provide student veterans and veterans in the community with a variety of outreach, recruitment, and retention services. These include assistance with problems involving checks, tutorial, counseling, and referrals to on-campus offices and services. The office also

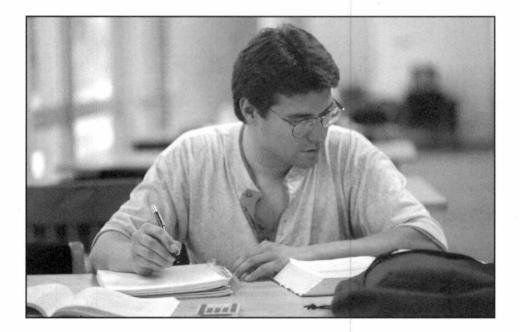
certifies student veterans and dependents for their VA educational benefits.

WOMEN'S SERVICES

The Institute for Women's Studies and Services is committed to the empowerment of women through education. To help women have a positive college experience, women's services provides referrals to campus and community resources, information about scholarships, assistance with the process of entering MSCD, 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. Students who need assistance should make an appointment with the coordinator of women's services.

WRITING CENTER

The Writing Center staff of composition instructors and trained writing tutors are 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. Services include Judicial Affairs, Student Problem Action Network (SPAN), Student Activities, student clubs and organizations, Student Publications, Counseling Center, Campus Recreation, Student Health Center, Student Legal Services, Gay, Lesbian, and Bisexual Student Services, Student Government Assembly (SGA) and the Student Finance Resource Center. These student-fee-funded programs exist to provide a diverse range of experiences in leadership development and programs that encourage cultural, recreational, educational, and social interaction. The Office of Student Life is located in the Tivoli Student Union, room 307.

Student Affairs Board (SAB)

The Student Affairs Board enables students to have a continuous voice in the use and allocation of their student fees. The SAB is comprised of student, faculty, and administrative representatives.

Student Problem Action Network (SPAN)

The SPAN Program helps students resolve problems on campus. This program involves trained mediators and advocates who can assist students in defining their problem, formulate a strategy of reaching a solution, and inform them about the institutional process for resolving the issue. This program is part of the judicial affairs area and is staffed by volunteer faculty, staff, and students. For additional information, please refer to the *Student Handbook* or come to the Tivoli, room 307.

STUDENT ACTIVITIES

The Office of Student Activities provides a variety of ways for students to meet others and become involved in the college community. The council staff produces concerts, comedy shows, lectures, and special events each semester. The council also cosponsors events with clubs and offices on campus.

The Potential through Education, Awareness and Knowledge (PEAK) leadership program offers a wide range of learning opportunities for students who want to develop and sharpen their skills. PEAK training includes coalition-building, group dynamics, and leadership theory and typology. The training is structured to fit into the busy schedules of students who work.

The Club Resource Center staff can help students find a club that meets their needs, or help them establish a new club, raise funds for programming, and keep their ledger balanced. The college currently has 100 active professional, social, academic, honorary, and special interest clubs on campus. The office is located in the Tivoli Student Union, room 305. The office number is (303) 556-2595, and hours are from 8 a.m. to 5 p.m., Monday - Friday.

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, Club Sports, Outdoor Adventure, 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 four basketball courts, 12 tennis courts, volleyball courts, a 25-yard indoor pool, eight handball/racquetball courts, two squash courts, a weightroom, a fitness center, a dance studio, a baseball field, softball fields, and a track. In addition, Campus Recreation offers high- and low-impact aerobics, step aerobics, and aqua aerobics daily. The Drop-in Program also offers a new instructional component, Healthy Lifestyles, 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, racquetball, and squash leagues, as well as tennis and golf tournaments.

Club Sports provides students, faculty, and staff members the opportunity to develop their individual athletic abilities in an organized group setting. The present clubs, which are all student initiated, include

aikido, fencing, men's lacrosse, men and women's rugby, men's volleyball, coed waterpolo, badminton, ski/snowbashers, and tai chi.

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, and sailing. The program also provides rental equipment, including camping and hiking gear, canoes, cross-country skis, mountain bikes, and roller blades. 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 recreational facility. Information on planned group activities or individual help sessions is available in the Events Center, room 108, (303) 556-3210.

STUDENT PUBLICATIONS

The student newspaper, *The Metropolitan*, is published by the Office of Student Publications, Tivoli Student Union, room 313, (303) 556-8361. The newspaper offers students the opportunity to explore fields such as journalism, advertising sales, marketing, graphic arts, publishing, photography, business, and accounting through work experiences. *The Metropolitan* is written and produced by and for MSCD students. It is published weekly during the fall and spring semesters and once during the summer semester. Students interested in working on the paper should contact the student editor at (303) 556-2507.

Metrosphere is the annual student literary and arts publication. It contains poetry, fiction, nonfiction, art, photography, and graphics. It is written, composed, and produced entirely by students. Submissions are accepted during the fall semester. Copies are distributed free to students in the spring semester. For more information, contact the student editor at (303) 556-3940.

The office also produces the *Student Handbook* and provides graphic art services at reduced costs to oncampus offices, departments, organizations, and individuals.

MSCD's Board of Publications is the advisory board to the editors of *Metrosphere* and *The Metropolitan*. The board appoints the editors from applicants each spring for the following academic year and deals with complaints or questions regarding content. The board is composed of five students, three administrators, and three faculty members and meets monthly during the fall and spring semesters.



POLICIES AND PROCEDURES

EQUAL OPPORTUNITY AND AMERICANS WITH DISABILITIES ACT

The Metropolitan State College of Denver is an equal opportunity employer; applications from minorities and women are particularly invited. The 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) 556-2939. Inquiries concerning the Americans with Disabilities Act (ADA) or 504 may be referred to Ms. Helen Fleming, Faculty and Staff ADA Coordinator, MSCD, Campus Box 47, P.O. Box 173362, Denver, CO 80217-3362, (303) 556-8514; Dr. Manuel Escamilla, Student ADA Coordinator, MSCD, Campus Box 42, P.O. Box 173362, Denver, CO 80217-3362, (303) 556-8514; Dr. Denver, CO 80217-3361, (303) 556-8376; or Ms. Karen Rosenchein, Manager. 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

The 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;
- 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 below); 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 inspect.
- 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 in 45 days or less 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 which 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.
- The 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, The 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.
- The 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 The 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 The 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
- -e-mail address
- -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

THE STUDENT RIGHT-TO-KNOW ACT AND THE CAMPUS SECURITY ACT Campus Crime Information

During 1992, 1993, and 1994, the following crimes were committed on campus at the Auraria Higher Education Center, serving the University of Colorado at Denver, The Metropolitan State College of Denver, and the Community College of Denver:

1	CCLIDDENICES	OF	CDIMINIAL	OFFENDER ON	CAMPILE

Offense	1996	1995	1994
Murder	0	0	0
Rape	0	0	0
Robbery	1	4	1
Aggravated Assaul			
Burglary	23	24	17
Vehicle Theft	11	10	11
Sexual Assault*	5	4	13
Hate Crimes	0	2**	1

degree sexual assaults (rape), such as indecent exposures, and third-degree sexual assaults.

**One incident, two offenses, simple assault and intimidation.

NUMBER OF ARRESTS FOR THE FOLLOWING CRIMES ON CAMPUS

	1996			199				1994
Liquor Law Violation*	. 10.			. 2				. 0
Drug Abuse Violation.	. 40.			. 6				. 2
Weapons Possession .								

* Excludes DUI arrests; however, 22 of 55 total offense arrests in 1994 involved alcohol.

These statistics were provided by the Auraria Department of Public Safety in compliance with the Crime Awareness and Campus Security Act of 1990.



provides students
with a background of
general education,
familiarity with basic principles
of business, and a specialized
knowledge in a selected field.







School of Business

OUR MISSION: We are committed to being the leader in the development and delivery of high-quality undergraduate business programs that meet the diverse and evolving educational needs of students, businesses, and other stake holders in the six-county service area of Metropolitan State College of Denver.

All of our programs and activities instill and satisfy the important purpose of lifelong learning. Our programs help students confront and resolve work and life issues with multicultural, ethical, technological, international, and environmental dimensions.

- Our baccalaureate degree programs provide a broad foundation in general education and exposure
 to all the functional areas of business, with specific competence in at least one of those areas.
- Residents of the metropolitan area may enhance their education as non-degree-seeking students, or through certificate programs in various areas of business.
- Businesses and other organizations may avail themselves of training and development through our outreach programs, which are custom-designed to strengthen human resources.

PROGRAMS

The School of Business awards bachelor of science and bachelor of arts degrees and offers minors for non-business majors:

Bachelor of Science Degree Programs

- Accounting
- · Computer Information Systems and Management Science
- Finance
- Management
- Marketing

Bachelor of Arts Degree Program

Economics

Minors (for Non-Business Majors)

- Accounting
- · Computer Information Systems
- Economics
- Finance
- General Business
- Management
- Marketing
- · Real Estate

DECLARING A MAJOR/MINOR IN THE SCHOOL OF BUSINESS

All students who qualify for admission to MSCD are eligible to declare a major or minor in the School of Business. Declaring a major or minor is the first step in the process of receiving appropriate advising. A student should declare a major as soon as possible by contacting an academic adviser, department chair, or faculty member. An undecided student may declare a pre-business major. For all degrees in the School of Business, at least 50 percent of the business credit hours received for the business degree must be earned in the School of Business.

New and transfer students intending to major in business are encouraged to see an adviser in the appropriate department before registering for classes. Students should develop a graduation agreement in consultation with their department adviser within the first semester of becoming a business major. The graduation agreement serves as a road map for course scheduling.

Semester Hours

STRUCTURE OF BACHELOR OF SCIENCE DEGREE PROGRAMS

All degree-seeking students must meet the college's requirements for all bachelor's degrees outlined in the General Information section on page 8 of this *Catalog*. Students desiring a bachelor's degree from the School of Business must complete General Studies, the business core*, the required courses of the chosen major, and electives. A minor is not required except for the noted economics major. Requirements for each degree program total 120 credit hours:

 General Studies (Level I and Level II)
 43

 Business Core*.
 33

 Major in School of Business
 24

 Electives**.
 20

 Total Hours (minimum)
 120

GENERAL STUDIES REQUIRED BY THE SCHOOL OF RUSINESS

A detailed description of these categories follows.

GENERAL STUDIES

The college requires 33 credit hours of General Studies. The School of Business requires 10 additional specific hours of general education, for a total of 43. Students desiring a bachelor of science degree from the School of Business should complete these courses as part of their first 60 credit hours.

GENERAL	STUDII	ES REQUIRED BY THE SCHOOL OF BUSINESS	Semester Hours
General S	tudies	Level I	
Comp	osition		
ENG	1010	Freshman Composition: The Essay	
ENG	1020	Freshman Composition: Analysis, Research and Documental	tion
Mathe	ematics		
MTH	1310	Finite Mathematics for the Management and Social Sciences	
MTH	1320	Calculus for the Management and Social Sciences	
Comn	nunicati	ions	
SPE	1010	Fundamentals of Speech Communication	
General S	tudies	Level II	
Histor	rical Stu	ndies	
HIS		(American history course recommended)	
Arts a	nd Lett		
PHI	1030	Ethics (Check General Studies guide for Level II Arts and L	etters elective) 3
-0	r–		
PHI	3360	Business Ethics	
Social	Science		
ECO	2010	Principles of Economics-Macro	
ECO	2020	Principles of Economics-Micro	
PSY	1001	Introductory Psychology	
-0	r-		
SOC	1010	Introduction to Sociology	
PSC	1010	American National Government	
-0	r-		
PSC	1020	Political Systems and Ideas	
Natur	al Scien		
		(Check General Studies guide for Level II Natural Sciences	
		(Check General Studies guide for Level II Natural Sciences	
Total o	of Requi	red and Elective General Studies Credit Hours	43*
*33 r	equirea	I for the standard economics major (with a minor).	
	-		

^{*}Not required for the standard economics major (with a minor).

^{**}The School of Business requires 20 credit hours of electives, no more than 9 of which may be business electives.

58 SCHOOL OF BUSINESS

BUSINESS CORE

The following courses are required for all business majors except those in the standard economics major (with a minor).

Required Courses				Sei	m	est	eı	r I	ło	urs
ACC	2010	Principles of Accounting I								3
ACC	2020	Principles of Accounting II								3
MKT	2040	Managerial Communications								3
CMS	2010	Principles of Information Systems								3
CMS	3300	Principles of Quantitative Management Systems								3
CMS	3320	Quantitative Decision Making								3
FIN	3300	Managerial Finance	٠,							3
MGT	2210	Legal Environment of Business I	٠.		• •					3
MGT	3000	Organizational Management								3
MGT	4950*	Strategic Management								3
MKT	3000	Principles of Marketing								3
Total Hours Required in Business Core						. 33				

^{*}Senior Experience capstone course taken during the final semester of the senior year.

Courses Required for Majors

ACCOUNTING DEPARTMENT

Required Courses

Courses in the Accounting Department prepare students for careers in public, industrial, tax, systems, and governmental accounting. In addition, a wide variety of internships is available through the Cooperative Education Office.

Students interested in becoming certified public accountants should be aware of the American Institute of Certified Public Accountants' 150-hour requirement scheduled to take effect in 2000. MSCD offers classes that meet all aspects of the AICPA's requirement. Students should talk to an accounting faculty adviser to develop an appropriate academic program.

Samester Hours

ACCOUNTING MAJOR FOR BACHELOR OF SCIENCE

Kequii	eu Cou	ises Selliester Hours
ACC	3090	Income Tax I
ACC	3300	Introduction to Accounting Systems
ACC	3400	Cost Accounting
ACC	3510	Intermediate Accounting I
ACC	3520	Intermediate Accounting II
ACC	4200	Auditing
ACC	4510	Advanced Accounting I
Subtoto	al	
Plus 3	hours f	rom the following courses:
ACC	3100	Income Tax II
ACC	3200	Governmental Accounting
ACC	3410	Cost Accounting II
ACC	4090	Tax Procedure and Research
ACC	4100	Tax Planning
ACC	4300	Advanced Auditing
ACC	4520	Advanced Accounting II
Total F	Hours Re	equired for Accounting Major24

COMPUTER INFORMATION SYSTEMS AND MANAGEMENT SCIENCE DEPARTMENT

A variety of courses in the rapidly expanding area of information systems in the business world are available through this major. Students can look forward to challenging careers in computer information systems or using their computer information systems knowledge within any other area of business. Students majoring in computer information systems and management science are encouraged to select advanced courses that best meet their needs in specific areas, such as systems analysis, design, development, programming, data base management, data communications and networks, or management of information systems. Advising for these areas is available from the department and individual faculty members.

COMPUTER INFORMATION SYSTEMS AND MANAGEMENT SCIENCE MAJOR FOR BACHELOR OF SCIENCE

Requi	Semester Hours						
CMS	2110	Business Problem Solving: A Structured Programming Approach	3				
CMS	3050	Fundamentals of Systems Analysis and Design	3				
CMS	3060	File Design and Data Base Management	3				
CMS	3230	Telecommunications Systems	3				
Progra	mming	Language Group (includes CMS 3110, CMS 3130, and CMS 3260)	3				
Micro	Microcomputer Technology Group (includes CMS 3220 and CMS 3290)						
CMS Capstone Group (includes CMS 4050, CMS 4060, CMS 4070, and CMS 4410)							
Appro	Approved CMS Electives						
Total	Total Hours Required for CMS Major						

FINANCE DEPARTMENT

The finance major 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 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 has been approved to offer the academic courses required for those who will take the national exams to become certified financial planners. A minimum grade of "C" is required for courses in the major.

FINANCE MAJOR FOR BACHELOR OF SCIENCE

Requ	Semester Hours	
FIN	3010	Financial Markets and Institutions
FIN	3600	Investments
FIN	3850	Intermediate Finance
FIN	4950	Financial Strategies and Policies
Subto	tal	
Appro	oved Ele	ctives*
Total	Hours R	equired for Finance Major

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

MANAGEMENT DEPARTMENT

The management major is designed to prepare students to start and manage businesses and other organizations in a diverse and technologically dynamic global environment. The program consists of required courses that build a broad conceptual foundation for identifying and solving managerial problems. Students have options to develop special skills in human resource management, operations management, or entrepreneurship.

MANAGEMENT MAJOR FOR BACHELOR OF SCIENCE

Requir	red Cou	Semester Hours
MGT	3020	Fundamentals of Entrepreneurship
MGT	3220	Legal Environment of Business II
MGT	3530	Human Resources Management
MGT	3550	Manufacturing and Service Management
MGT	3820	International Business
MGT	4530	Organizational Behavior
Subtoto	al	
Plus 6	hours f	rom the following courses:
MGT	3210	Commercial and Corporate Law
MGT	4000	Management Decision Analysis
MGT	4020	Entrepreneurial Creativity
MGT	4050	Purchasing and Contract Management
MGT	4420	Entrepreneurial Business Planning

MGT	4550	Project Management
		Labor/Employee Relations
MGT	4620	Appraisal and Compensation
		Employee Training and Development
		Managing Productivity
MGT	4830	Workforce Diversity
Total .	Elective .	Hours6
Total	Hours Re	equired for Management Major

MARKETING DEPARTMENT

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

In addition to the department's well-rounded selection of courses, the curriculum also 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 MAJOR FOR BACHELOR OF SCIENCE

Required Co	
MKT 3010	Marketing Research
	Consumer Behavior
MKT 4560	Marketing Management
Marketing Ele	ectives*
Total Hours R	Required for Marketing Major24

^{*}Business communications courses can be used as business electives, but not as marketing electives.

BACHELOR OF ARTS

ECONOMICS DEPARTMENT

Economics is the scientific study of the allocation of scarce or limited resources. The study of economics provides a general knowledge of the operation of economic systems and institutions. This training is extremely valuable regardless of the student's specific career objective. The bachelor of arts degree program gives students a fundamental knowledge of domestic and foreign economies and the quantitative tools necessary for independent analytical research and thought. Specialized courses develop the student's ability to use the tools of economic theory and analysis. Such training is essential for graduates who wish to qualify for positions as professional economists. Employment opportunities are available in national and international business; federal, state, and local government; and various nonprofit organizations.

Economics majors may choose from two tracks of studies: the standard economics major, which requires a minor, or the business emphasis, which does not require a minor.

ECONOMICS MAJOR FOR BACHELOR OF ARTS (WITH A MINOR)

Total Hours Required for Bachelor of Arts in Economics

Requir	red Cou	ırses	S	en	ne	ste	er	He	ours	
MTH	1210	Introduction to Statistics				•			4	
ECO	3010	Intermediate Microeconomic Theory							3	
ECO	3020	Intermediate Macroeconomic Theory							3	
ECO	3150	Econometrics							3	
ECO	4600	History of Economic Thought							3	
Subtoto	al								. 16	
Approv	ed Elec	ctives				•			. 15	
Total H	lours R	equired for the Economics Major						٠.	. 31	
Select	ed Mir	nor								
Must b	e comp	leted to fulfill the degree requirement						٠.	. 18	
Genera	l Studie	es (minimum)							. 33	

BUSINESS EMPHASIS (WITH NO MINOR)

This emphasis prepares the student for entry into the growing professions of economics and business. It trains the student to assist governments and businesses in solving problems and formulating policies.

Kequi	rea Col	rses Semester Hour
Genera	al Studie	s (Level I and Level II) (minimum)
Busine	ess Core	
(See b	usiness	core for bachelor of science degree in School of Business)
Requi	red Eco	nomics Courses
ECO	3010	Intermediate Microeconomic Theory
ECO		Intermediate Macroeconomic Theory
ECO	3150	Econometrics
ECO	4600	History of Economic Thought
Subtot	al	
Appro	ved Eco	nomics Electives*1
Total I	Hours of	Economics
Electiv	ves with	n the School of Business (upper-division)
Other	Non-Bu	siness Electives
Total I	Hours R	equired for a Bachelor of Arts in Economics with Business Emphasis
*IInne	r-divisi	in economics electives selected in consultation with and approved by the Economic

MINORS IN THE SCHOOL OF BUSINESS

For non-business degree students, the School of Business offers eight minors in different business specialties. Most minors require 18 credit hours (plus prerequisites, if any). A student may not take more than 30 credit hours in the School of Business without declaring a business major.

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 adviser or department chair of the appropriate department.

ACCOUNTING MINOR

Department.

The Accounting Department provides a minor designed for non-business majors. The 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. Non-business students are allowed to take only 30 credit hours in business courses. At least 12 hours of accounting courses in the minor must be completed in residency, and the acceptance of transfer credits will be governed by standards and policies of the School of Business and the Accounting Department.

Requi	red Cou	rrses Semester Hou	rs
ACC	2010	Principles of Accounting I	. 3
ACC	2020	Principles of Accounting II	. 3
ACC	3090	Income Tax I	. 3
ACC	3510	Intermediate Accounting I	. 3
Appro	ved Elec	ctives*	. 6
Required Courses ACC 2010 Principles of Accounting I ACC 2020 Principles of Accounting II. ACC 3090 Income Tax I ACC 3510 Intermediate Accounting I Approved Electives* Total Hours Required for Accounting Minor	18		

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

COMPUTER INFORMATION SYSTEMS MINOR

This minor is designed for students majoring in a non-business discipline. The 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.

Requi	red Cou	urses	Semester Hours
CMS	2010	Principles of Information Systems	3
CMS	2110	Business Problem Solving: A Structured Programming Approach	
-0	r–		
CMS	3270	Micro-Based Software	3
CMS	3050	Fundamentals of Systems Analysis and Design	3
CMS	3060	File Design and Data Base Management	3
Appro	ved CM	IS 3000-Level Electives	6
Total I	Hours R	Required for CMS Minor	18

ECONOMICS MINOR

The economics minor is designed for non-business majors and provides them 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.

Requi	red Co	Semester Hours	S
ECO	2010	Principles of Economics-Macro	3
ECO	2020	Principles of Economics-Micro	3
Appro	ved Ele	tives *	2
Total I	Hours R	equired for Economics Minor	3

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

Finance Minors

The Finance Department provides two minors designed primarily for non-business majors: the finance minor and the real estate minor.

FINANCE MINOR

This minor offers non-business majors a broad-based education in finance, emphasizing a particular field within this discipline, such as personal financial planning, investments, managerial finance, financial institutions, or international finance.

For the finance minor, the student must have completed ACC 2010 and ACC 2020 (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 to satisfy the requirements of the minor. The acceptance of transfer credits will be governed by standards and policies of the School of Business and the Finance Department.

Requi	FIN 3010 Financial Markets and Institutions									urs
FIN	3010	Financial Markets and Institutions								. 3
FIN	3300	Managerial Finance			•		٠			. 3
FIN	3600	Investments								. 3
Appro	oved Elec	ctives*					×		. ,	. 9
Total	Hours R	Required for Finance Minor					÷			18

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

REAL ESTATE MINOR

The minor prepares non-business majors for employment and a career in real estate, as well as for personal financial affairs dealing with this field.

For the real estate minor, the student must have completed ACC 2010 and ACC 2020 (or the equivalent) and ECO 2010, 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. Non-business students are allowed to take only 30 credit hours in business courses. A minimum grade of "C" is required in all finance minor courses. At least 12 hours of finance courses in the minor must be completed in residency. The acceptance of transfer credits will be governed by standards and policies of the School of Business and the Finance Department.

Completion of FIN 3800, FIN 3810, and FIN 3820 fulfills the educational requirement for the Colorado Real Estate Brokers License.

Requi	3800 Real Estate Practice and Law. 3810 Advanced Real Estate Practice and Law. 3820 Real Estate Finance. 4840 Real Estate Appraisal. 4850 Commercial and Investment Real Estate.				Semester I							
FIN	3800	Real Estate Practice and Law						e y		. 3		
FIN	3810	Advanced Real Estate Practice and Law								. 3		
FIN	3820	Real Estate Finance								. 3		
FIN	4840	Real Estate Appraisal		٠.						. 3		
FIN	4850	Commercial and Investment Real Estate								. 3		
Appro	ved Ele	ctive*					, ,		٠,	. 3		
Total	Total Hours Required for Real Estate Minor						8.8		٠.	18		

*Approved Electives FIN 2250 Personal Money Management. 3 FIN 3010 Financial Markets and Institutions 3 FIN 3300 Managerial Finance 3 FIN 3420 Principles of Insurance 3

FIN 3600 Investments 3 ECO 4500 Business and Economic Forecasting 3

GENERAL BUSINESS MINOR

The School of Business offers the general business minor for non-business majors. Students minoring in general business must take ECO 2010 and ECO 2020. 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.

Prerec	uisites	credits may be applied to General Studies	Semester Hours
ECO	2010	Principles of Economics - Macro	3
ECO	2020	Principles of Economics - Micro	3
MTH	1310	Finite Mathematics for the Management and Social Sciences	3
MTH	1320	Calculus for the Management and Social Sciences	3
Requir	red Cou	irses	Semester Hours
ACC	2010	Principles of Accounting I	3
ACC	2020	Principles of Accounting II	3
CMS	2010	Principles of Information Systems	3
CMS	3300	Principles of Quantitative Management Systems	3
FIN	3300	Managerial Finance	3
MGT	2210	Legal Environment of Business I	3
MGT	3000	Organizational Management	3
MKT	3000	Principles of Marketing	3
Minim	um Tota	l Hours Required for General Business Minor	
(not to	exceed	30 credit hours)	24

MANAGEMENT MINOR

The management minor is designed for non-business majors. It gives them an opportunity to gain familiarity with managerial concepts and skills that can enhance their performance in managing people and organizations.

Requi	red Cou	rrses Semester Hours					
MGT	3000	Organizational Management					
		Human Resources Management					
MGT	3550	Manufacturing and Service Management					
MGT	3820	International Business					
MGT	4530	Organizational Behavior					
Approved Management Elective							
Total I	Hours R	equired for Management Minor18					

MARKETING MINOR

The marketing minor is designed for non-business majors and provides them with the opportunity to develop an understanding of business and sufficient familiarity with marketing skills to work in a business environment.

Requi	red Cou	ırses			Se	m	es	te	er	H	01	ırs
MKT	3000	Principles of Marketing			 	é,						. 3
MKT	3010	Marketing Research			 							. 3
		Managerial Communications										
MKT	3310	Consumer Behavior		 	 		٠.					. 3
MKT	4520	Seminar in Marketing Management			 					٠		. 3
Appro	ved Elec	ctives	٠.,		 							. 3
Total I	Hours R	equired for Marketing Minor		 	 				. ,			18

AFRICAN AMERICAN LEADERSHIP INSTITUTE

The African American Leadership Institute operates on the belief that all members of our society should have an equal opportunity to pursue their goals and aspirations. The institute provides a unique approach to the particular problems and concerns of African Americans in the Denver metropolitan area with three underlying tenets of its philosophy:

- 1. To identify, motivate, and train future community leaders;
- To acquaint these individuals with the problems and needs of the community while investigating alternative approaches and solutions; and
- 3. To create an opportunity for these individuals to join together and exchange ideas with current leaders for the purpose of networking for national, state, and local community improvements.

Seminars cover topics that reflect current community issues, including regional business and economics, local and state government, education, health care, human services, the arts, and cultural affairs. For more information contact the School of Business.

INSTITUTE FOR ENTREPRENEURSHIP AND CREATIVITY

The Institute for Entrepreneurship and Creativity has introduced entrepreneurial education into the region's academic arena through weekend courses for professionals and entrepreneurial seminars and forums. The purpose of the institute is to discover, foster, and mold the visions of today's aspiring entrepreneurs. It provides degree-seeking and non-degree-seeking students with opportunities to learn about entrepreneurship, to understand the entrepreneurial process, to practice skills that lead to successful entrepreneurship, and to enhance creativity and innovation. For more information contact the School of Business.

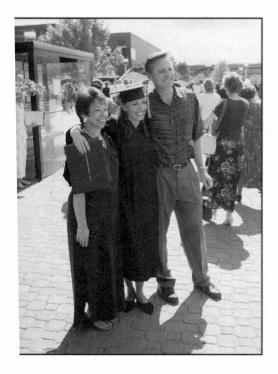
SMALL BUSINESS INSTITUTE

The Small Business Institute offers a practical opportunity that supplements academic studies with real case studies. The Small Business Institute employs senior-level students, under faculty supervision, to provide business counseling and technical assistance to small business clients in the community. For more information contact the School of Business.



The School of Letters, Arts and Sciences

provides bigh quality
liberal arts education
designed to meet
the educational needs
of the urban student.







School of Letters, Arts and Sciences

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 18 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 and a special program, 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 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.
- The Health Careers Science Program offers support and guidance to women and people of color who are interested in careers in science and technology.

AFRICAN AMERICAN STUDIES DEPARTMENT

The African American Studies Department offers a range of courses in African American studies that present the dimension of the black experience in this country. 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. The courses may apply in the General Studies requirements and as electives for graduation.

Students are urged to consult with the faculty in the African American Studies Department about new courses now being designed, as well as special offerings.

The major in African American studies, which leads to a bachelor of arts degree, and the minor program must be planned in consultation with an adviser in the African American Studies Department.

Students desiring secondary licensure in social studies should see the section on the teacher education program.

African American Studies Major for Bachelor of Arts

Requi	ired Co	urses	Semester Hours
AAS	1010	Introduction to African American Studies	3
AAS	1130	Survey of African History (HIS 1940)	3
AAS	2000	Social Movements and the Black Experience (SOC 2000)	3
AAS	3300	The Black Community (SOC 3140)	3
AAS	3700	Psychology of Racism and Group Prejudice (PSY 3700)	3
AAS	4850	Research Seminar in African American Studies	3
Select	one fro	m the following:	
MUS	2010	Topics in Ethnic Music: Variable Title	3
ART	3040	African Art	3
AAS	3240	African American Literature (ENG 3240)	3
Total .			39

Electives

Elective hours in African American studies courses are selected in consultation with the adviser.

A.....

MINOR IN AFRICAN AMERICAN STUDIES

Required Courses			Semester Hours		
AAS	1010	Introduction to African American Studies			
AAS	2000	Social Movements and Black Experience (SOC 2000)			
Total.			6		

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 American studies adviser 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.

ART DEPARTMENT

The Art Department offers a full range of studio art courses in the areas of fine arts (drawing, painting, printmaking, photography, video, and sculpture); design (advertising design and computer graphics); and crafts (ceramics, metalwork, jewelry making, and art furniture) leading to the bachelor of fine arts degree; art history (studies emphasize contemporary, modern, ancient, and non-Western art) leading to the bachelor of fine arts degree; and licensure in art education.

Goals

Undergraduate studies in art and design 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 and design
- 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 and demonstrate the way art reflects cultural values
- · evaluate developments in the history of art
- · understand and evaluate contemporary thinking about art and design
- · make valid assessments of quality in design projects and works of art

Art Major for Bachelor of Fine Arts

	Core Requ	uirements for All Studio Art Majors	Semester Hours		
	ART 110	00 Basic Drawing I			
	ART 111	10 Basic Drawing II			
	ART 120	00 Design Processes and Concepts I			
	ART 121	10 Design Processes and Concepts II			
	ART 201	10 Survey of Modern Art: Impressionism through Abstract Express	sionism 3		
	ART 202	20 Survey of Contemporary Art: 1960 to the Present			
	Total		18		
	Senior Experience Requirements for Studio Art Majors				
	ART 401	10 Modern Art History: Theory and Criticism			
	ART 475	50 Senior Experience Studio: Portfolio Development and Thesis Sh	iow3		
	Total		6		
	Students ch	hoose one of the four areas of emphasis: fine arts, design, crafts, or ar	t history.		
Fine	Arts Emp	phasis	21		
		area of concentration in: drawing, painting, sculpture, printmaking,			
	the 21 above)				
	Select a con	embination of 15 hours from the following two areas:			
			6 or 9		
	Crafts	***************************************	6 or 9		
	ART 200	00 World Art Prior to 1880			
	Art History	y (upper-division)			

68 SCHOOL OF LETTERS, ARTS & SCIENCES

Design Emphasis
Select a combination of 15 hours from the following two areas:
Crafts
Fine Arts 6 or 9
ART 2000 World Art Prior to 1880
Art History (upper-division)
Crafts Emphasis
15 hours in area of concentration in: ceramics, jewelry, or art furniture (within the 21 above).
Select a combination of 15 hours from the following two areas:
Design
Fine Arts
ART 2000 World Art Prior to 1880
Art History (upper-division)
Total
(A minimum of 33 upper-division art hours required.)
Minor requirements for art majors are optional.
Art History Major for Bachelor of Fine Arts
Core Requirements for All Art History Majors Semester Hours
ART 1100 Basic Drawing I
ART 1110 Basic Drawing II
ART 1200 Design Processes and Concepts I
ART 1210 Design Processes and Concepts II
ART 2010 Survey of Modern Art: Impressionism through AbstractExpressionism
ART 2020 Survey of Contemporary Art: 1960 to the Present
Total
Senior Experience Requirement for Art History Majors
ART 4010 Modern Art History: Theory and Criticism
Total3
Art History (required)
ART 2000 World Art Prior to 1880
Fine Arts*
Design*
Crafts*
Total
(A minimum of 27 upper-division art hours required.)
Minor requirements for art majors are optional.
Industrial Design Major for Pachelor of Arts

Industrial Design Major for Bachelor of Arts

For advising in this program, please contact the office of the dean, School of Professional Studies.



Art Licensure: K-12

Teacher licensure for art majors is available through the Art Department. An art major is required.

Requi	red Cou	rses Semester Hours
ART	3380	Introduction to Art Education
EDS	3110	Processes of Education in Multicultural Urban Secondary Schools
EDS	3120	Field Experience in Multicultural Urban Secondary Schools
EDS	3200	The Adolescent as a Learner
EDS	3210	Secondary School Curriculum and Classroom Management
EDS	3220	Field Experience in Teaching, Materials Construction, and Classroom Management 3
SED	3600	The Exceptional Learner in the Classroom
RDG	3280	Teaching of Reading and Writing in the Content Areas
ART	4380	Art Methods/Materials: K-124
EDU	4190*	Student Teaching and Seminar: Elementary (K-6)
EDS	4290*	Student Teaching and Seminar: Secondary (6–12)
ART	4390	Integrating the Arts for Gifted and Talented
		ing is composed of daily full-time work during 15 weeks, split 8 and 7 weeks between l secondary levels.

In addition to field experiences included in required coursework, students must present evidence of having completed at least 200 hours of work with children. This may be accomplished through a variety of community organizations and institutional activities. Students should plan their volunteer work in consultation with the art education adviser.

Students who seek licensure must pass a public speaking course (SPE 1010) with a grade of "B" or better, or obtain a waiver. Students must also achieve satisfactory scores on the state licensure examination.

Minor in Art

Requi	red Co	Semester Hours
ART	1100	Basic Drawing I
ART	1110	Basic Drawing II
ART	1200	Design Processes and Concepts I
ART	1210	Design Processes and Concepts II
ART	2010	Survey of Modern Art: Impressionism through Abstract Expressionism
ART	2020	Survey of Contemporary Art: 1960 to the Present
Subtot	al	
Electiv	ves	9
Minim	num of c	one upper-division studio course and one upper-division art history course
Total.		

BIOLOGY DEPARTMENT

The Biology Department offers two majors, the bachelor of science in biology and the bachelor of arts in biology. While it is not necessary to declare an emphasis within these majors, a student may choose to emphasize botany, medical technology, microbiology, or zoology. 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 secondary licensure in science should see an adviser in the teacher education program. A biology minor is offered to students with related majors or a special interest in the field.

Biology Major for Bachelor of Science

Requi	red Cou	rses Semester Hours
BIO	1080	General Introduction to Biology
BIO	3600	General Genetics
Select	two of t	he following:
BIO	2100	General Botany5
BIO		General Zoology
BIO	2400	General Microbiology4
Select		he following:
BIO	3550	Urban Ecology
BIO	4540	Plant Ecology
BIO		Animal Ecology
Subtote	al	

Electives

Biology courses selected from the 2000-, 3000-, and 4000-level series, and approved by faculty advisers in the Biology Department, must be completed to bring the total of biology courses approved for the major to 40 semester hours. At least 14 of these elective semester hours must be from the 3000- and 4000-level courses of the Biology Department.

El	
Electives	
Total	

Required Non-biology Courses

One year of college general chemistry, one semester of upper-division organic chemistry, one semester of upper-division biochemistry, and one year of mathematics starting with MTH 1110, are requisites for the bachelor of science major in biology.

Biology Major for Bachelor of Arts

Requi	red Co	irses	Semester Hours
BIO	1080	General Introduction to Biology	4
BIO	3600	General Genetics	4
Select	two of	the following:	
BIO	2100	General Botany	5
BIO	2200	General Zoology	5
BIO	2400	General Microbiology	4
Select	one of	the following:	
BIO	3550	Urban Ecology	4
BIO	4540	Plant Ecology	4
BIO	4550	Animal Ecology	4
		minimum market market and market	

Electives

Biology courses selected from the 2000-, 3000-, and 4000-level series, and approved by faculty advisers in the Biology Department, must be completed to bring the total of biology courses approved for the major to 40 semester hours. At least 14 of these elective semester hours must be from the 3000- and 4000-level courses of the Biology Department.

	0,	
Electives		
Total		40

Required Non-biology Courses

One year of general chemistry (equivalent to the present courses CHE 1100 and CHE 2100).

Botany Emphasis

Requirements for either a bachelor of arts or a bachelor of science degree in biology must be satisfied, and the 40 hours of biology courses must include BIO 2100 and BIO 4540, and 15 semester hours from the following botany electives:*

Electi	ve Cour		ester Ho	
BIO	3140	Plant Physiology		. 5
BIO	3150	Plant Hormones		. 2
BIO	3160	Plant Anatomy and Morphology		. 4
BIO	3180	Vascular Plant Taxonomy		. 4
BIO	4120	Algology		. 4
BIO	4160	Mycology		. 4
BIO	4850	Evolution		. 3
Subto	tal			15

^{*}BIO 3010 and BIO 3050 are both applicable to the fields of botany, microbiology, and zoology and are recommended as additional electives for all three areas of emphasis.

Medical Technology Emphasis

Students must satisfy the requirements listed for the bachelor of science degree 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 the 20 hours of upper-division courses and a total of 40 semester credit hours in biology.

Electi	Elective Courses			
BIO	3210	Histology		. 4
BIO	3270	Parasitology		.4
BIO	3360	Animal Physiology		.4
BIO	4160	Mycology		. 4
Subto	tal			16

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 and complete the requirements for a minor in chemistry.

Microbiology Emphasis

Students must satisfy the requirements listed for the bachelor of science major in biology, including BIO 2400. Students must also take BIO 3350, BIO 4400, BIO 4450, and BIO 4470. Additional hours from the courses listed below or appropriate omnibus courses as selected by the student and approved by the microbiology faculty must be taken to complete the 20 hours of upper-division elective courses and a total of 40 semester hours in biology.*

Electi	ve Cour	rses Semester Hours
BIO	3270	Parasitology
BIO		Algology
BIO	4160	Mycology4
BIO		Virology
		d BIO 3050 are both applicable to the fields of botany, microbiology, and zoology and are as additional electives for all three areas of emphasis.

Required Non-biology Courses

The student must satisfy the requirements listed for non-biology courses for the bachelor of science major including one course in biostatistics or calculus and a computer science course to fulfill the required one year of college mathematics. In addition, the student must complete CHE 3000, CHE 3010, CHE 4320, and one year of college physics.

Zoology Emphasis

Students must satisfy the requirements for the bachelor of science degree in biology and must include in the 40 semester hours of biology courses BIO 2200 and BIO 4550 and 15 semester hours from the following list of zoology electives:*

Electi	Elective Courses S		
BIO	3210	Histology	
BIO	3220	Comparative Vertebrate Anatomy	
BIO	3250	Arthropod Zoology4	
BIO	3270	Parasitology	
BIO	3340	Endocrinology	
BIO	3360	Animal Physiology	
BIO	4250	Entomology	
BIO	4270	Herpetology	
BIO	4280	Ornithology	
BIO	4290	Mammalogy	
BIO	4810	Vertebrate Embryology	

*BIO 3010 and BIO 3050 are both applicable to the fields of botany, microbiology, and zoology and a recommended as additional electives for all three areas of emphasis.

Minor in Biology

Requir	Semester Hours	
BIO	1080	General Introduction to Biology
Select t	wo of t	he following:
BIO	2100	General Botany5
BIO	2200	General Zoology
BIO	2400	General Microbiology4
BIO	2310, 2	2320 Human Anatomy and Human Physiology I and II
		he following:
BIO	3550	Urban Ecology
BIO	3600	General Genetics
BIO	4540	Plant Ecology
BIO	4550	Animal Ecology
Subtota	l	

Electives

SENIOR EXPERIENCE FOR BIOLOGY MAJORS

A student majoring in biology may fulfill the Senior Experience requirement with any course approved for the purpose by the General Studies Committee. Any biology course approved by the General Studies Committee and the Biology Department for Senior Experience credit may be counted toward the Senior Experience requirement, or toward a biology major/biology minor, but not both.

CHEMISTRY DEPARTMENT

The Chemistry Department is approved by the American Chemical Society and offers several degree programs: the bachelor of science in chemistry; bachelor of science in chemistry occupational health and safety area of emphasis; bachelor of science in chemistry criminalistics area of emphasis; 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.

Students electing the chemistry major with the occupational health and safety emphasis will be trained in the recognition, evaluation, and control of hazards in the workplace. This area of emphasis includes courses equivalent to those required for the bachelor of arts major in chemistry, as well as supporting science and mathematics courses and courses in instrumental analysis, toxicology, safety, and occupational health and safety. A mandatory internship during the junior or senior year provides valuable practical experience. Graduates of this program are prepared for immediate employment in the field of occupational health and safety or the field of chemistry. Graduates in this emphasis area also meet the requirements for admissions to medical school, dental school, veterinary school, or graduate school in industrial hygiene or chemistry.

For further information about the occupational health and safety or criminalistics programs, students should contact the Chemistry Department. Students seeking secondary education licensure in science should see an adviser 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 H	ours
CHE 1800	General Chemistry I	4
CHE 1810		4
CHE 1850		
CHE 3000	Analytical Chemistry	3
CHE 3010	Analytical Chemistry Laboratory	2
CHE 3100		
CHE 3110	Organic Chemistry II	3
CHE 3120	Organic Chemistry I Laboratory	2
CHE 3130	Organic Chemistry II Laboratory	2
Total		26

Che	mistr	у Ма	jor for Bachelor of Science			
		red Cou		Semester Hours		
	Additional Required Chemistry Courses:					
	CHE	3250	Physical Chemistry I			
	CHE	3260 3280	Physical Chemistry II	4		
	CHE	3290	Physical Chemistry I Laboratory			
			Thysical chemistry if Europatory			
	Electiv					
			10 semester hours in chemistry courses selected in consulta	ation with and approved		
			try Department is required			
	Total F	Iours Re	equired	48		
	Requi	ed Anc	illary Courses for Bachelor of Science			
		1410	Calculus I			
	MTH	2410	Calculus II			
	MTH PHY	2311	Calculus III.			
	-an		General Physics I			
	PHY		General Physics II			
	-0					
	PHY	2010 C	College Physics I			
	-an					
	PHY		College Physics II			
			emical Society Approval			
			rican Chemical Society degree criteria the following cour			
	CHE	2300 3400	Inorganic Chemistry			
	CHE	4100	Instrumental Analysis.			
	CHE	4110	Instrumental Analysis Lab			
	CHE	4300	Advanced Inorganic Chemistry			
	Subtote	ıl				
	Electiv	es				
			6 credit hours of advanced level electives are required. Elect			
			with the Chemistry Department. The following courses may			
			IE 4020, and CHE 4320			
			alth and Safety Emphasis			
		sult wit	h the Chemistry Department regarding the availabil	ity of this emphasis and these		
cour	ses.					
Stud	ents ele	ecting t	his program of study must complete the basic chemi	stry core (26 hours) in addition		
to th			quired courses. The requirement of a minor is waive			
		ed Cou		Semester Hours		
			quired Chemistry Courses:	4		
	CHE	3200	Survey of Physical Chemistry	4		
	CHE	4100	Instrumental Analysis.			
	CHE	4110	Instrumental Analysis Laboratory			
	CHE	4310	Biochemistry I			
	CHE	4350	Biochemistry Laboratory			
	Requir	ed Occi	upational Health and Safety Courses:			
	CHE	2500	Introduction to Occupational Health and Safety			
	CHE	3500	Occupational Safety			
	CHE	4150	Instrumentation and Analysis in the Occupational Environmentation and Control of Air Occilian			
	CHE	4200 4250	Evaluation and Control of Air Quality			
	CHE	4500	Occupational Toxicology			
	CHE	4750	Occupational Health and Safety Internship			

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	Requi	red And	illary Courses:
	BIO	1080	General Introduction to Biology
	BIO	2320	Human Anatomy and Physiology II
	BIO	2400	General Microbiology4
	MTH	1210	Introduction to Statistics
	MTH	1410 2010	Calculus I
	PHY PHY	2010	College Physics I Laboratory
			Conege Physics I Laboratory
	Electiv		
			courses are recommended as electives:
	SPE	1010	Fundamentals of Speech Communication
	COM	2610	Introduction to Technical Writing
	ECO	2010	Principles of Economics-Macro
	MGT	4610	Labor/Employee Relations
Crir	ninalie	tice Fr	nphasis
			this program of study must complete the basic chemistry core (26 hours) in addition
			equired courses. The requirement of a minor is waived for students in this program.
to th		red Cou	
			quired Chemistry Courses:
	CHE	3190	Survey of Physical Chemistry4
	CHE	3200	Survey of Physical Chemistry Laboratory
	CHE	4100	Instrumental Analysis
	CHE	4110	Instrumental Analysis Laboratory
	CHE	4310	Biochemistry I
	CHE	4350	Biochemistry Laboratory
	Requi	red Cri	minalistics Courses:
	CHE	3700	Criminalistics I
	CHE	3710	Criminalistics II
	CHE	4700	Criminalistics I Internship
	CHE	4710	Criminalistics II Internship
	-		minal Justice Courses:
	CJC	1010	Introduction to the Criminal Justice System
	CJC	2100 2120	Substantive Criminal Law
	CJC	3120	Evidence and Courtroom Procedures
			illary Courses:
	BIO	1080 2400	General Introduction to Biology
	BIO	3600	General Genetics
	MTH	1210	Introduction to Statistics
	MTH	1410	Calculus I
	PHY	2010	College Physics I and
	PHY	2030	College Physics I Laboratory
	-0		
	PHY	2311	General Physics I and
	PHY	2321	General Physics I Laboratory
			99
Che			jor for Bachelor of Arts
	Requi	red Cou	rses Semester Hours
			ry Core
			quired Chemistry Courses:
	CHE	3190	Survey of Physical Chemistry4
	CHE	3200	Survey of Physical Chemistry Laboratory
	Electiv		
			6 semester hours in chemistry courses selected in consultation with and approved by the
			partment is required.
	Subtote	21	

MTH PHY Total	1410 2010 Ancillar	Calculus I	4						
Minor in	Chen	nistry							
	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.								
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.									
Minor in	Crim	ninalistics							
Requi	red Cou	irses	Semester Hours						
CHE	1100	Principles of Chemistry							
CHE	2700	Introduction to Criminalistics	4						
CHE	2750	Arson and Explosives							
CHE	2760	Field Testing and Laboratory Analysis of Drugs	1						
CHE	3600	Crime Scene Investigation I	4						

CHICANO STUDIES DEPARTMENT

The Chicano Studies Department offers a bachelor of arts degree in Chicano studies. The Chicano and other Hispanic historical experiences are used as points of departure toward expanding awareness of the multicultural world and the contributions of Chicanos. The program is designed to assist in the preparation of scholars as well as human service providers.

Chicano Studies Major for Bachelor of Arts

The requirements include core courses in the major, basic knowledge of the Spanish language, plus approved electives.

	Requi	Semester Hours				
	CHS	1000	Introduction to Chicano Studies	3		
	CHS	1010	History of Meso-America: Pre-Columbian and Colonial Periods (HIS	1910) 3		
	CHS	1020	History of the Chicano in the Southwest: 1810 to Present (HIS 1920).	3		
	CHS	2010	Survey of Chicano Literature (ENG 2410)	3		
	CHS	3100	The Chicano Community (SOC 3130)	3		
	CHS	4850	Research Experience in Chicano Studies	3		
	Subtot	al		18		
	Langu	age Red	quirements			
	SPA	1010	Elementary Spanish I	5		
	SPA	1020	Elementary Spanish II	5		
	SPA	2110	Intermediate Spanish			
	-0	r-				
	SPA	2120	Spanish Reading and Conversation	3		
	Subtot	al		13		
Approved Electives.						
	Total.			40		
	A minimum of 9 semester hours of electives in Chicano studies selected in consultation with the department chair is required.					

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 adviser in Chicano studies, will develop individual minors that reflect the best possible elective curricula and ensure that a relevant emphasis is maintained. Total hours for the minor are 21.

Requi	urses Semester Hours	
CHS	1000	Introduction to Chicano Studies
CHS	1010	History of Meso-America: Pre-Columbian and Colonial Periods
CHS	1020	History of the Chicano in the Southwest: Mexican and United States Periods3
CHS	2010	Survey of Chicano Literature
Total .		

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 Chicano studies faculty adviser.

Assessment Test

During the final semester, students majoring in Chicano studies will be required to take a comprehensive assessment test.

EARTH AND ATMOSPHERIC SCIENCES DEPARTMENT

The Earth and Atmospheric Sciences Department is composed of three separate disciplines: geography, geology, and meteorology. The department offers a bachelor of arts or bachelor of science degree in land use and a bachelor of science degree in meteorology. The bachelor of science degree is recommended for those students desiring a stronger background in the physical and quantitative aspects of the environment.

Minor programs are available in geography, geology, and meteorology. Students working toward teacher licensure in either science or social studies may take courses in geology, geography, or meteorology. Students interested in environmental science or earth space science may develop an Individualized Degree Program major through Adult Learning Services.

Land Use

The land use major is very broad in scope and can be used for a number of career objectives and graduate school programs. Opportunities exist in such areas as planning, cartography, geographic information systems (GIS), air photo and satellite imagery interpretation, environmental and resource management, travel and transportation, mining and mineral resources, residential and industrial development, recreational land use, population analysis, and a variety of other interrelated fields. This program provides a solid foundation for continued study at the graduate level.

Land Use Major for Bachelor of Science

Requi	red Co	Semester Hours	
MTH	1210	Introduction to Statistics	4
GEG	1220	Map Use	2
Choos	e one fr		
GEG	1000	World Regional Geography	
GEG	1300	Introduction to Human Geography	3
GEG	1100	Introduction to Physical Geography	
GEG	1010	General Geology	4
GEG	2250	Introduction to Geographic Information Systems	
GEG	3210	Introduction to Cartography	4
GEG	3610	Principles of Land Use	
GEL	4010	Environmental Hazards and Planning	3
GEG	4950	Internship in Geography	
GEL	4950	Internship in Geology	2
Senio	r Exper	ience	
GEG	4960	Global Environmental Challenges	
GEL	4960	Environmental Field Studies	3
Core T	Total		23–25
		asis Total	
Land	42–46		

Required Areas of Emphasis for the Land Use Major

In addition to the required land use core, each student must complete one of the areas of emphasis listed below. Within the area of emphasis, students must complete a set of required courses plus electives. Electives are chosen in consultation with a departmental adviser and are designed to provide an integrated and well-planned pattern of courses related to the student's educational and career goals.

			1					
Urb	Urban Land Use Emphasis Semester Hours							
	GEG	3360	Geography of Economic Activity					
	GEG	3600	Urban Geography					
	GEG	4610	Urban and Regional Planning					
	URS	4500	Cities of the Future					
	Urban	Land U	se Electives*					
	*Choo	se a mir	nimum of 7 semester hours of elective credit, in consultation	with a departmental adviser.				
Geo	graphi	ic Info	rmation Systems Emphasis	Semester Hours				
			Introduction to GIS					
	-0	or-						
	GEG	3210	Cartography					
		(which	never course was not taken as part of the core)					
	GEG	3220	Intermediate Cartography					
	GEG	3250	Computer Cartography					
	GEG	4850	Advanced Geographic Information Systems					
	CSI	1010	Introduction to Computer Science					
	Geogra	aphic In	formation Systems Electives*					
	Subtot	al						
	*Choo	se a mir	nimum of 6 semester hours of elective credit, in consultation	with a departmental adviser.				
Env	ironm	ent and	Resources Emphasis	Semester Hours				
	GEG	1200	Introduction to Environmental Science					
	GEG	1400	World Resources					
	GEG	4840	Remote Sensing					
	ECO	3450	Environmental Economics					
	Enviro	nment a	and Resources Electives*					
	Subtot	al		19				
	*Choo	se a mir	nimum of 7 hours of elective credit, in consultation with a de	partmental adviser.				
Geo	logy E	mphas	is	Semester Hours				
	GEL	3120	Advanced Geomorphology					
	GEL	3420	Soil Resources					
	GEL	3440	Energy and Mineral Resources					
	GEL	4000	Environmental Geology					
	Geolog	gy Elect	ives*					
	Subtot	al						
			and the second s					

Required Minor

Except for the geology area of emphasis, the field of study selected as a minor is at the option of the student.

*Choose a minimum of 5 semester hours of elective credit, in consultation with a departmental adviser.

Note: students selecting this area of emphasis will be required to minor in geology.

Land Use Major for Bachelor of Arts

To fulfill the requirements for the bachelor of science with a major in land use, a student must complete the requirements as listed above under the bachelor of arts; however, the student must minor in one of the sciences, or science-oriented fields as approved by the Earth and Atmospheric Sciences Department.

Minor in Geology

Required Core	Semester Hours
GEL 1010 General Geology	
Any 1000-level GEL Course	
GEL 2010 Rocks and Minerals	
GEL 2020 The Stratigraphy and Structure of the Earth	
Any 3000- or 4000-level GEL Courses	
Total	23–24

M			graphy
		red Co	
		1120	Orienteering
	GEG	1220	Map Use
	GEG	1300	Introduction to Human Geography
	GEG	1230	Weather and Climate
		or-	
	MTR	1400	Introduction to Meteorology
	Subtot	al	9
	Struct	ured E	lectives
			f 13 additional hours must be selected in consultation with a department adviser. At least ast be selected from each of the following groups to satisfy this requirement.
	Physic	al	
	GEG	1100	Introduction to Physical Geography
	GEG	1240	Landforms of the United States
	GEL	1010	General Geology
	Resou	rces an	d Environment
	GEG	1200	Introduction to Environmental Science
	GEG	1400	World Resources
	GEG	3400	Water Resources
	GEL	3420	Soil Resources
	GEL	3440	Energy and Mineral Resources
	Spatia	l Analy	rsis and Planning
	GEG	3600	Urban Geography
	GEG	3610	Principles of Land Use
	GEG	3620	Population, Resources and Land Use
	GEG	3630	Transportation Planning and Land Use
	GEG	4620	Land Use: Residential
	Urbar	Studie	s
	Regio	nal Geo	graphy
	GEG	1000	World Regional Geography
	GEG	2020	Geography of Colorado
	GEG	2100	Geography of Latin America
	GEG	2200	Geography of the United States
	GEG	3000	Historical Geography of the United States
	Field s	study in	either geography or geology

Meteorology

Meteorology is the science of the atmosphere. Modern meteorologists are involved in weather observing, forecasting, research, and dissemination of weather information to the public. Meteorologists also study global weather and climate, and investigate the influence that human beings exert on Earth's climate. The forecasting laboratory includes a computerized observing station, daily weather maps, satellite images, and access to the national weather database. The bachelor of science degree in meteorology follows American Meteorological Society recommendations for undergraduate programs. Students should contact a meteorology faculty member to discuss degree programs, career opportunities, and graduate school options.

Meteoro	logy N	Semester Hours		
MTR				
MTR	1420	Introduction to Meteorology Lab		
MTR	2410	Meteorological Instrumentation		
MTR	3400	Synoptic Meteorology I		
MTR	3410	Synoptic Meteorology II		
MTR	3430	Dynamic Meteorology I		
MTR	3440	Physical Meteorology		
MTR	3450	Dynamic Meteorology II		
MTR	4410	Numerical Weather Prediction		
MTR	4420	Industrial Meteorology		
MTR	4440	Climatology		
		orology Courses.		
		olology courses.		
		ourse Requirements*	2	
ENG	1010	Freshman Composition: The Essay		
ENG	1020	Freshman Composition: Analysis, Research, and Documer		
MTH		Introduction to Statistics		
MTH		Calculus I		
MTH		Computer Programming: FORTRAN		
MTH		Calculus II	4	
PHY		2321 General Physics I and Lab		
PHY		2341 General Physics II and Lab		
CHE	1800	General Chemistry I		
		nunications		
		and Letters		
		rical		
		d Science		
		Minor		
Appro	oved Ele	ctives		
Total				
*Stud	ents mus	st consult a faculty adviser regarding General Studies requir	rements.	
Minor in	n Mete	eorology		
	ired Co		Semester Hours	
MTR		Introduction to Meteorology		
MTR	1420	Introduction to Meteorology Lab		
MTR		Synoptic Meteorology I		
MTR	2 2 2 2	Synoptic Meteorology		
		ctives.		
1 1				

ENGLISH DEPARTMENT

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 advisers in the appropriate education department as well.

The English major may choose an emphasis in one of the following:

- · literature
- writing
- · elementary school teaching, leading to licensure
- · secondary school teaching, leading to licensure

The English minor may choose an emphasis 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 advisers. Further information is available in the English Department office.

English Major for Bachelor of Arts

Literature Emphasis

The English major, literature emphasis, 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.

,	and the world of business.						
	Requir	rses Semester Hours					
	ENG	2100	Introduction to Literary Studies				
	ENG	3100	Studies in Chaucer, Shakespeare and Milton				
	ENG	3440	Myth, Symbol and Allusion In Literature				
	ENG	4610	Literary Criticism (Senior Experience course)				
	Subtote	al					
	Four o	f these o	courses, one of which must be ENG 2220:				
	ENG	2110	World Literature: Beginnings to 1600				
	ENG	2120	World Literature: 17th Century to Present				
	ENG	2210	American Literature: Beginnings through Civil War				
	ENG	2220	American Literature: Civil War to Present				
	ENG	2310	British Literature: Beginnings to 1785				
	ENG	2330	British Literature: 1785 to Present				
	Subtoto	al					
	One of	these c	ourses:				
	ENG	2010	The Nature of Language				
	ENG	2020	Systems of English Grammar				
	ENG	3020	History of the English Language				
	ENG	3030	Semantics				
	Subtoto	al	3				
	Electiv	es: In a	ddition, 18 hours of English courses, at least 15 of which must be upper-division: four				
	upper-	division	literature courses that include at least one development, one period, and one major authors				
	course;	one En	glish upper-division writing course; and two English electives.				
	Subtoto	al					
	Total		45				

Elementary School Teaching Emphasis

The elementary school teaching emphasis 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.

Requi	Required Courses Semester Hours					
Litera	ture Co	ore Courses				
ENG	2100	Introduction to Literary Studies	3			
ENG	2220	American Literature: Civil War to Present	3			
ENG	3100	Studies in Chaucer, Shakespeare and Milton				
ENG	3440	Myth, Symbol and Allusion in Literature				
Subto	al	***************************************				
Langu	ıage/Lin	aguistics Core Courses				
ENG	2010	The Nature of Language	3			
ENG	3020					
Subtot	al	, , , , , , , , , , , , , , , , , , , ,				
Writin	ng/Comi	position Courses				
		Art and Craft of Writing	3			
-0		S				
ENG	2520	Introduction to Creative Writing	3			
ENG	3510	Advanced Composition				
Subtot	al					
Langu	iage Art	ts Core Courses				
ENG	3460	Children's Literature.				
ENG	4650	Teaching Composition in Elementary Schools				
ENG	4660	Teaching Literature and Language: K–6 (Senior Experience course)				
RDG	3130*	Teaching Reading in the Elementary School: K–6				
Subtot						
	h Electi					
		rision English courses selected in consultation with and approved by a de-	signated			
		г				
_		d Electives				
		d Electives				
Writin	0	C - With Will Will (FNG 2520)	2			
ENG	3520	Creative Writing Workshop (prerequisite: ENG 2520)				
ENG	3530	Techniques of Critical Writing	3			
Langu						
ENG	3010	Modern English Language Studies (prerequisite: ENG 2010)				
ENG	3030	Semantics (prerequisite: ENG 2010)	3			
Litera	ture					
ENG	3240	African American Literature				
ENG	3420	The English Bible as Literature				
ENG	3430	Classical Mythology				
ENG	3470	Young Adult Literature				
ENG	3490	Chicano Folklore of the Southwest				
Total.			39			

dent's 42-semester-hour professional education requirements.

Secondary School Teaching Emphasis

The secondary education emphasis 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.

*RDG 3130 meets the reading requirements for Colorado State licensure but is carried under the stu-

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Required Cou	urses	Semester Hours		
I. Literature	Core			
ENG 2100	Introduction to Literary Studies	3		
ENG 2210	American Literature: Beginnings through the Civil War			
-or-				
ENG 2220	American Literature: Civil War to Present	3		
ENG 3100	Studies in Chaucer, Shakespeare, and Milton	3		
ENG 3440	Myth, Symbol, and Allusion in Literature			
ENG 3470	Young Adult Literature			
Total	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	15		
II. Language	Core			
ENG 2010	The Nature of Language	3		
ENG 3020	History of the English Language.			
	Thistory of the English Language.			
		0		
III. Composit				
ENG 2500	The Art and Craft of Writing			
ENG 3510				
Total		6		
IV. Teaching	English Core			
ENG 3620	Teaching Composition, 7–12	3		
ENG 4600	Teaching Literature and Communication, 7–12	3		
ENG 4640	Teaching English, 7–12 (Senior Experience course)			
Total				
V. Upper Lev				
	livision English courses, at least two of which must be literature courses, s	elected in		
	with and approved by a designated English adviser			
	Total			
	nts with a bachelor of arts in English from an accredited institution who are			
	will receive credit for Sections I and V, in addition to any courses in Sect			
IV for which th	hey have existing credits. Transfer questions should be referred to the Engli	sh Department.		
Writing Emphas	is			
The writing emph	asis major provides extensive study, practice, and opportunity for	performance in var-		
ious modes and go	enres of writing as well as a foundation in the appreciation of the	literary heritage in		
English The prog	gram immerses students in reading, writing, and language and hel	ns prepare them for		
graduate school or	r vocation while clearly placing them in the tradition of the libera	l arte		
Required Cou		emester Hours		
		emester mours		
I. Literature				
	on Literature Courses			
	cluding ENG 2100.	9		
Three hours m	nust emphasize modern literature.			
Upper-Divisio	on Literature Courses:			
3000-Level an	nd/or 4000-Level	9		
Semester Hour	rs of Literature Required	18		
	and Linguistics Course			
Select one in	consultation with a faculty adviser, from the department's offerings.			
	rs of Language and Linguistics Required	2		
III. Writing (
Entry Course:		Y		
ENG 2500	The Art and Craft of Writing	3		

Writing Electives (In consultation with an English adviser, select four — three must be 3000-level)						
JRN	1100	Beginning Reporting				
ENG	2520	Introduction to Creative Writing				
COM	2610	Introduction to Technical Writing				
ENG	3510	Advanced Composition				
ENG	352B	Creative Writing Workshop: Fiction				
ENG	352A	Creative Writing Workshop: Poetry				
ENG	352C	Creative Writing Workshop: Drama				
ENG	3530	Techniques of Critical Writing				
ENG	3980	English Co-op Education				
Subtot	al					
Specialized Writing Courses						
ENG	3820	Writing Studio (must be repeated for credit under two distinct titles) 6				
Subtot	al	6				
Senior Experience Course						
ENG	4520	Advanced Writing				
Total S	Semester	Hours of Writing Required				
		Hours Required				

English Minor

Writing Emphasis

I. Literature Course

Lower-Division Literature Courses:

The writing emphasis 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 adviser in order to understand prerequisites and select proper courses.

2000-1	Level, Ir	icluding ENG 2100
		n Literature Course: 4000-Level
Subtot	al	9
	-	and Linguistics Course: consultation with a faculty adviser, from department's offerings.
Semesi	ter Hou	rs of Language and Linguistics Required
III. W	riting (Course:
Entry (Course:	
ENG 2	2500	The Art and Craft of Writing
Subtot	al	
Writin	ng Elect	ives (select three — two must be 3000-level)
JRN	1100	Beginning Reporting
ENG	2520	Introduction to Creative Writing
COM	2610	Introduction to Technical Writing
ENG	3510	Advanced Composition
ENG	352B	Creative Writing Workshop: Fiction
ENG	352A	Creative Writing Workshop: Poetry
ENG	352C	Creative Writing Workshop: Drama
ENG	3530	Techniques of Critical Writing
ENG	3820	Writing Studio
0.1	1	0

Literature Emphasis

The English minor with emphasis in literature serves students who seek to develop skills in reading, writing, and thinking about literary texts. The program is designed both for students interested in reading diverse texts from many ages, culture, and genres and for students who wish to focus on a single age, culture or genre, for example, dramatic literature.

 Subtotal
 9

 Semester Hours of Writing Required
 12

 Total Semester Hours Required
 24

Course should be selected in consultation with a faculty adviser in the Department of English.

I. Intr	oductor	ry Course:	Semester Hours			
ENG 2100 Introduction to Literary Studies						
II. Tw	o cours	ses from the following:				
ENG	2110	World Literature: Beginnings to 1600	3			
ENG	2120	World Literature: 17th Century to Present	3			
ENG	2210	American Literature: Beginnings through Civil War	3			
ENG	2220	American Literature: Civil War to Present	3			
ENG	2310	British Literature: Beginnings to 1785	3			
ENG	2330	British Literature: 1785 to Present	3			
Subtot	al		6			
III. Aı	ny perio	od course				
-0	r-					
Any d	evelopn	nent course				
(Choos	se one c	course from ENG 3110, ENG 3210, ENG 3230, ENG 3240, ENG 3310,	ENG 3330, ENG			
3400 c	or ENG	3410)				
Subtot	al		3			
IV. De	epartme	ental Electives				
One co	ourse at	the 2000-level or above	3			
Two li	terature	courses at the 3000-level or above	6			
One 40	000-leve	el literature or literary criticism course	3			
Total S	Semester	r Hours Required	24			
	This mi 95 Cata	inor replaces both the literature emphasis and the dramatic literatur log.	e emphasis of the			

Language and Linguistics Minor

Required Core Courses

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.

Semester Hours

ENG	2010	The Nature of Language
Any fo	ur of the	e following six courses, chosen in consultation and with an approved departmental adviser.
ENG	3020	History of the English Language
ENG	3030	Semantics
ENG	3040	Morphology and Syntax
ENG	3050	Language and Society
ENG	3060	Modern Language Theory
ENG	4010	Studies in Linguistics (Variable Topics)
Subtote	al	
Interdi	sciplina	ry elective courses. Any two courses chosen in consultation with and approved by depart-
mental	adviser	후 시간에 가는 하는 것이 되었다. 그 생각이 하는 아이를 했다.
ANT	2330	Cross-Cultural Communication
COM	3310	International Technical Communication
ENG	4010	Studies in Linguistics (Variable Topics)
ENG	4990	Internship
PHI	1110	Language, Logic, and Persuasion
PHI	3120	Philosophy of Language
PSY	3570	Cognitive Psychology
SED	4200	Language Development and Learning Disabilities
SPA	3150	Spanish Phonetics: Theory and Practice
SPA	4310	History of the Spanish Language
SPE	3520	Language Acquisition
SPE	3540	Phonetics and Language Sample Analyses
SPE	3740	Psychology of Communication
SPE	3760	Cultural Influences on Communication
WMS	2770	Gender and Communication
(SPE 2		
		6
Total S	semester	Hours Required

8

HISTORY DEPARTMENT

Major for Bachelor of Arts

Requi	red Co	rrses Semester Hours
HIS	1010	Western Civilization to 1715
HIS	1020	Western Civilization since 1715
HIS	1210	American History to 1865
HIS		American History since 1865
HIS	4820	Senior Seminar
Total		15

Electives

A minimum of 23 additional semester hours in history is required, 18 of which must be upper-division. No more than 4 semester hours in HIS 3890 readings courses may be counted toward the major without prior written approval from the department.

Course Distribution

In the minimum of 23 additional semester hours required, students must include at least 3 semester hours in each of the broad areas of history: United States, European, Developing World.

Grade Average

Students majoring in history must maintain at least a 2.0 average in their history courses.

Advising

History majors should consult with a departmental adviser to select the courses in other disciplines that complement their area of concentration in the major.

Minor in History

There are three different areas of emphasis available to students seeking a history minor: regular history area of emphasis, American West history area of emphasis, 20th-century studies history area of emphasis.

Regular History Emphasis

Requi	red Cou	Irses Semester Hours
HIS	1010	Western Civilization to 1715
HIS	1020	Western Civilization since 1715
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 upper-division and should be selected in consultation with a departmental adviser. 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 Emphasis

Requ	ired Co	irses Semester Hours
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 Emphasis

Requi	ired Co	irses Semester Hour	'S
HIS	1220	American History since 1865	3
HIS	2010	Contemporary World History	3
Total.			6

Electives

A minimum of 15 additional hours treating 20th-century history is required, 9 of which must be upperdivision.

Grade Average

Students minoring in history must maintain a 2.0 average in their history courses.

Secondary School Education Licensure in Social Sciences

Students majoring in history may combine their major with other courses in the social sciences and in education to earn secondary education licensure. The requirements of this program are included under the Secondary Education Department section of this *Catalog*.

Prelaw Courses

Several history courses are of particular importance to legal studies. These include HIS 1210, HIS 1220, HIS 3460, and HIS 3680. Students interested in prelaw courses are urged to contact the department adviser.

Minor in Interdisciplinary Legal Studies

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.

Requi	red Co	urses	Semester Hours
HIS	3680	The Court in Crisis	3
PHI	3430	Philosophy of Law	3
SOC	3550	Sociology of Law	
ENG	3700	Literature and the Law	
PSC	3120	American Constitutional Law	3
CJC Ir	troduct	ory Course (see Criminal Justice and Criminology Department chair)	3
XXX	XXX	Seminar in Legal Topics (interdisciplinary — team-taught course)	3
Total.			21
		select one law-related course from the courses listed below or approved studies minor adviser:	by the interdisci-
MGT	2210	Legal Environment of Business I	3
MGT	3220	Legal Environment of Business II	
CJC	2100	Substantive Criminal Law	
HIS	3460	The Constitution and the New Nation, 17871848	3
SOC	3500	Criminology	3
WMS	3310	Women and the Law	
Total .			24

JOURNALISM DEPARTMENT

Journalism Major for Bachelor of Arts

The Journalism Department 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 department 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.

The Journalism Department is one of two journalism schools in the country to offer an internship program that allows students to get hands-on experience in political reporting. *The Capitol Reporter* is open to upper-division students, who spend an entire semester covering the Colorado legislature for credit. The editor is a full-time staff member, and the weekly newspaper is highly regarded by legislators, lobbyists, and the college community.

Proficiency in standard written English is a prerequisite for all journalism courses. Students are required to complete ENG 1010 before taking any journalism course beyond JRN 1010. Proficiency in typing is required for all courses beyond JRN 1010.

A list of suggested courses that should be taken for General Studies has been established by the department. Students should also select an adviser immediately to begin planning their course of study.

Students may not select both a major and minor from the Journalism Department.

Students will be required to take a journalism proficiency test upon completion of JRN 2100, Intermediate Reporting and News Writing, and/or JRN 2200, Intermediate News Editing. Students must pass the test before they will be allowed to take upper-division courses in their major or minor. Prerequisites are enforced.

Students will also take an assessment test toward the end of their studies to ensure they have reached the proficiency level necessary to pursue a career in journalism or public relations.

The Journalism Department offers a journalism major with three emphases — news/editorial, photo-journalism, and public relations — and minors in print journalism and public relations.

		-	ione relations — and minors in print journalism and public rel	ations.
Jou			ajor for Bachelor of Arts for Journalism Major and Minors	Semester Hours
	JRN	1010	Introduction to Journalism and Mass Media	3
	JRN	1100	Beginning Reporting and News Writing	3
	JRN	1200	Beginning News Editing	
	JRN	2100	Intermediate Reporting and News Writing	
	JRN	4500	Ethical and Legal Issues in Journalism	
		ıl		
New			mphasis	
	Journal	lism Co	re	15
	Requir	red Cou	irses	
	JRN	2200	Intermediate News Editing	3
			f the following:	
	JRN		Publication Practicum	2
		3100		
	JRN	3980	Cooperative Education	
	JRN	4150	The Capitol Reporter: Writing/Reporting	
	JRN	4160	The Capitol Reporter: Editing/Design	3
	And th	ree of th	ne following (each course is one credit hour):	
	JRN	3500	Topics in Journalism	3
	Subtoto	al		9–12
	Electiv	200		
	JRN	3150	Contemporary Issues	3
	JRN	3400	Feature Article Writing for Newspapers	
	5.500	3600		
	JRN		Photojournalism I	
	JRN	4100	Advanced Reporting	
	JRN	4200	Principles of Newspaper and Magazine Design	
	JRN	4400	Feature Article Writing for Magazines	
	JRN	4600	Photojournalism II	
	Total.			
Phot	hoiour	aliem	Emphasis	
I HOI	Journal	liam Co	re	15
				13
		red Cou		Nation (Control of Control of Con
	ART	1200	Design Processes and Concepts I	
	ART	2200	Beginning Photography	
	JRN	2200	Intermediate News Editing	3
	JRN	3600	Photojournalism I	3
	JRN	4600	Photojournalism II	3
	Subtoto	al		15
	Electiv	es		
	ART	3200	Intermediate Photography	3
	ART	3230	Color Photography	
	ART	3410	Computer Graphics.	
	JRN	3100	Publication Practicum.	
			Continuous I	
	JRN	3150	Contemporary Issues	
	JRN	3400	Feature Article Writing for Newspapers	
	JRN	3500	Topics in Journalism	
	JRN	4100	Advanced Reporting	
	JRN	4150	The Capitol Reporter: Writing/Reporting	
	JRN	4160	The Capitol Reporter: Editing/Design	
	JRN	4200	Principles of Newspaper and Magazine Design	3
	JRN	4400	Feature Article Writing for Magazines	
	Subtoto	al		9
	$Total\ .$			39

Publ	lic Rela	ations	Emphasis		
	Journalism Core				
	Required Courses				
	JRN	2700	Fundamentals of Public Relations		3
	JRN	3700	Public Relations Writing		
	JRN	3980	Cooperative Education		
	JRN	4700	Public Relations Strategic Planning		
	MKT	3000	Principles of Marketing		
	SPE	3440	Television Production.		
	SPE	3100	Business and Professional Speaking		
	SPE	4100	Techniques of Persuasion		
	Subtota	ıl			
	Electiv				
	COM	2420	Basic Corporate Videotape Production		3
	COM	2430	Introduction to Technical Media.		
		2460	Presentation Graphics		
	COM	3440	Corporate Scriptwriting for Film and Television		
	JRN	3400	Feature Article Writing for Newspapers		
	JRN	3500	Topics in Journalism.		
	JRN	3550	Print Media Advertising Sales		
	JRN	3600	Photojournalism I		
	MKT	3110	Advertising Management		
	MKT	3120	Promotional Strategy		
	SPE	1700	Communication Theory		
	SPE	2400	Introduction to Radio and Television Broadcasting		
	SPE	3130	Conference Leadership		
	SPE	3430	Radio-Television Announcing		
	SPE	3450	Broadcast Journalism: Radio		
	SPE	3480	Workshop in Radio Production		
	SPE	3740	Psychology of Communication		
	SPE	4450	Broadcast Journalism: Television		
	SPE	4480	Seminar Practicum in Broadcasting		
	SPE	4490	Effects of Radio-Television on Contemporary Life		
¥					
Jou	rnalis			Semeste	
			re		15
		ed Cou			
	JRN	2200	Intermediate News Editing		
	JRN	3500	Topics in Journalism		
	Subtota	d			4
	Electiv	es			
	JRN	3100	Publication Practicum		3
	JRN	3150	Contemporary Issues		3
	JRN	3400	Feature Article Writing for Newspapers		
	JRN	3600	Photojournalism I		3
	JRN	4100	Advanced Reporting		
	JRN	4200	Principles of Newspaper and Magazine Design		
	JRN	4400	Feature Article Writing for Magazines		
	JRN	4600	Photojournalism II		
	Total				25

		ns Minor Semester Hours
Journ	alism Co	re
	ired Cou	
		Fundamentals of Public Relations
JRN	3700	Public Relations Writing
JRN	3980	Cooperative Education
		Public Relations Strategic Planning
Subto	tal	
Total		27

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.

In addition to the general mathematics major, the department offers a mathematics major in five areas of emphasis encompassing a variety of significant mathematical ideas. These areas of emphasis 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 emphasis 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.

Major in Mathematics for Bachelor of Arts or Bachelor of Science

The Department of Mathematical and Computer Sciences offers coursework leading to the bachelor of arts or bachelor of science degree. The student may choose either degree.

The student may choose to complete a mathematics major in one of the following emphasis areas:

- · general
- · applied mathematics
- · computer science
- · mathematics education
- · probability and statistics
- · theoretical mathematics

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 potentials.

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 emphasis take sections of calculus using Mathematica.

Basic Mathematics Core	Semester Hours
MTH 1410* Calculus I or MTH 1450 Calculus and Mathematica I	
MTH 2410* Calculus II or MTH 2400 Calculus and Mathematica II	4
MTH 2420* Calculus III or MTH 2450 Calculus and Mathematica III	
MTH 3100 Introduction 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 course 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, and MTH 4480.

The requirements for each are as follows:

General Emphasis

Required Courses	Semester Hours
Basic Core	15
MTH 4390 Mathematics Seminar	1
Subtotal	16

A minimum of 24 credit hours chosen from MTH 1510, MTH 2140*, or any upper-division mathematics courses. The 24 credit hours must include at least 20 upper-division hours, at least one Senior Experience course in mathematics, and one of the following sequences:

Applied Mathematics Emphasis

The emphasis 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 emphasis take sections of calculus using Mathematica.

Required Courses	Semester Hours					
Basic Core	15					
MTH 1510 Computer Programming: FORTRAN	4					
MTH 3140 Linear Algebra	4					
MTH 3210 Probability and Statistics	4					
MTH 3420 Differential Equations	4					
MTH 3440 Partial Differential Equations	4					
MTH 4480 Numerical Analysis I	4					
MTH 4490 Numerical Analysis II	4					
MTH 4590 Applied Mathematics Senior Seminar	1					
Total	44					

It is recommended that students take one or more of the following courses in addition to the requirements: MTH 3220, MTH 3250, MTH 3470, MTH 4210, MTH 4410, MTH 4420, and MTH 4450.

Computer Science Emphasis

This emphasis 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.

Required Cou	Semester Hours								
Core									
MTH 3140	Linear Algebra	4							
MTH 3210	Probability and Statistics	4							
MTH 3420	Differential Equations	4							
MTH 4480	Numerical Analysis I	4							
Two of the fol	lowing courses:								
MTH 3220	Design of Experiments	4							
MTH 3440	Partial Differential Equations	4							
MTH 4210	Probability Theory	4							
MTH 4220	Stochastic Processes	4							
MTH 4490	Numerical Analysis II	4							
One of the foll	One of the following courses:								
MTH 4290	Senior Statistics Project	1							
MTH 4390	Mathematics Senior Seminar	1							
MTH 4590	Applied Mathematics Senior Seminar	1							
Total	<i>Total</i>								

^{*}No credit is allowed for MTH 2140 if MTH 3140 is also taken.

Computer Science Minor (required)

-			erree rearres (regumen)										
	Requi			S	en	ne	ste	r	H	ou	rs		
	CSI	1300	Introduction to Structured Programming	 	 ٠.								4
	CSI	2300	Advanced Programming and Data Structures	 	 	٠.							4
	CSI	2400	Computer Organization and Assembly Language	 	 								4
	CSI	3100	Discrete Mathematics	 	 								4
	CSI	3300	Foundations of File Structures	 	 ٠.								4
	One o	f the fol	lowing courses:										
	CSI	4250	Software Engineering Principles	 	 								4
	CSI	4300	Advanced Data Structures and Algorithm Analysis	 	 								4
	Total .	Hours R	Required for Minor	 	 							. 2	24

Mathematics Education Emphasis

The emphasis in mathematics education is for the preparation of classroom teachers of mathematics. Students seeking teacher licensure in mathematics must satisfy the teacher education program requirements of the college in addition to all of the mathematics major requirements. Content competency must be shown for mathematics course credit that is 10 or more years old.

Requi	equired Courses Semester H						
Basic	Core						
CSI	2610	Computer Programming for Educators					
MTH	3110	Abstract Algebra I					
MTH	3140	Linear Algebra					
MTH	3210	Probability and Statistics					
MTH	3600	History of Mathematics					
MTH	3610	Methods of Teaching Mathematics					
MTH	3650	Foundations of Geometry					
A Sen	ior Expe	rience course in mathematics*					
Total.							

^{*}EDS 4290 or EDU 4190 may be substituted.

Probability and Statistics Emphasis

The emphasis 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 emphasis also prepares the student for graduate study.

Requi	red Cou	rses Semester Hours	
Basic (Core	rses Semester Hours	
MTH	1510	Computer Programming: FORTRAN	
MTH	2140	Computational Matrix Algebra*	
MTH	3210	Probability and Statistics	
MTH	3220	Design of Experiments	
MTH	3250	Optimization Techniques I	
MTH	4210	Probability Theory	
MTH	4220	Stochastic Processes	
MTH	4290	Senior Statistics Project	
Total.			
	10000000000	SEC. NOT SET US A SEC. OF TRANSPORT SET	

^{*}MTH 3140 may be substituted for MTH 2140.

Theoretical Mathematics Emphasis

The emphasis in theoretical mathematics prepares the student for further specialized study at the graduate level as well as being adaptable for preparation for positions in business, industry, and government.

Requi							5	er	ne	st	er	H	oı	ırs		
Core																15
MTH	3110	Abstract Algebra I														. 3
MTH	3140	Linear Algebra														. 4
MTH	4390	Mathematics Senior Seminar														. 1
MTH	4410	Advanced Calculus I						٠.								. 4
MTH	4420	Advanced Calculus II	. ,													. 3
A minimum of 7 credit hours chosen from any upper-division mathematics courses								. 7								
Total	Total 37															

Minor in Mathematics
Required Core Semester Hours
MTH 1410 Calculus I or MTH 1450 Calculus and Mathematica I
-or-
CSI 1300 Introduction to Structured Programming
MTH 2410 Calculus II or MTH 2400 Calculus and Mathematica II
ELECTIVES
A minimum of 10 hours at least 7 of which must be at the upper-division level. These 10 hours may include MTH 2420 or MTH 2450, any upper-division mathematics course, or any course approved by the Mathematical and Computer Sciences Department.
Electives 10 Total 22
Major in Computer Science for Bachelor of Science
The department offers a complete degree program in computer science that adheres to the nationally recognized standards set by the Computer Sciences Accreditation Board. Students are encouraged to contact the department for further details. The Senior Experience course in computer science is CS 4260. The CSI program includes a required mathematics minor.
Required Core Courses* Semester Hours
CSI 1300 Introduction to Structured Programming**
CSI 2300 Advanced Programming and Data Structures
CSI 2400 Computer Organization and Assembly Language
CSI 3100 Discrete Mathematics
CSI 3210 Principles of Programming Languages
CSI 3300 Foundations of File Structures
Subtotal
*A grade of "C" is required in each of the core courses. **CSI 1300 is a core course and part of the MTH minor.
Required Advanced Courses
CSI 4250 Software Engineering Principles
Choose two courses from:
CSI 3060 Computer Architecture and Systems Programming
CSI 3310 Fundamentals of Database Systems
CSI 4300 Advanced Data Structures and Algorithm Analysis
A minimum of 8 additional credit hours selected from the following courses: CSI 3060, CSI 3120, CSI 3280, CSI 3310, CSI 3510, CSI 4120, CSI 4300, CSI 4520, CMS 3050, MTH 4490
Subtotal
Required Ancillary Courses
COM 2610 Introduction to Technical Writing
EET 2310 Digital Logic and Telecommunications
PHI 3360 Business Ethics
Subtotal
Required Mathematics Minor*
MTH 1410 Calculus I or MTH 1450 Calculus and Mathematica I
MTH 2140**Computational Matrix Algebra .2 MTH 2410 Calculus II or MTH 2400 Calculus and Mathematica II .4
MTH 3210 Probability and Statistics (Calculus-based)
Two courses chosen from:
MTH 3220 Design of Experiments
MTH 3250 Optimization Techniques I
MTH 4480 Numerical Analysis I
Subtotal

^{*}CSI 1300 is part of the mathematics minor. **MTH 3140 may be substituted for MTH 2140.

	Addit	ional Co	ourse Requirements	
	ENG	1010*	Freshman Composition: The Essay	
	ENG	1020*	Freshman Composition: Analysis, Research and Docum	entation3
	SPE	1010*	Fundamentals of Public Speaking	
	PHY	2311-2	341* General Physics I, Lab I, General Physics II, Lab II	I
	-0	or—		
	CHE 1	1800, CF	HE 1810, CHE 1850* General Chemistry I, II, and Labora	atory 10
	XXX	XXX*	Level II General Studies—Historical	
	XXX	XXX*	Level II General Studies—Arts and Letters	
	XXX	XXX*	Level II General Studies—Social Sciences	
	Six ad	ditional	hours from the areas of communication, historical, arts ar	nd letters, and/or social
	scienc	es		
	Unrest	tricted E	lectives	
	Subtot	al		40
			s, along with MTH 1410 or MTH 1450 and PHI 3360, a	
			graduation requirement of 3 credit hours must also be sai	
	Total.			
Mi	nor in	Com	puter Science	
		red Cou		Semester Hours
	CSI	1300	Introduction to Structured Programming	
	CSI	2300	Advanced Programming and Data Structures	
ELE	ECTIVES			
	A min	imum of	12 semester hours chosen from CSI 2400 and upper-div	ision CSI courses 12
	Total			20

MODERN LANGUAGES DEPARTMENT

The Modern Languages Department offers major programs in Spanish and modern languages; minor programs in French, German, and Spanish; and teacher education programs in Spanish and modern languages. 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 education programs abroad, as well as certificate programs in basic French, German, and Spanish studies and Spanish translation.

Registration for courses is in accordance with previous preparation. Consequently, students should register for foreign language courses as follows: No previous study, or less than one year in high school—1010; students with one year in high school who feel their background is weak—1010; one semester in college—1020; one year in college—2110 and/or 2310 for German and Spanish and 2010 for French; two years in high school—2110 and/or 2310 for German and Spanish and 2010 for French, or 1020, if needed; three years in high school or one and one-half years in college—2120 and/or 2320 for German and Spanish and 2010 for French, if needed; four years in high school or two years in college—3000-level courses, or 2120 and/or 2320 for German and Spanish and 2020 for French, if needed.

The above regulations may not be applicable if students have had no professional instruction in their chosen foreign language within the past two years. Students can also test if they feel that they 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 elementary and 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.

Minor in German Required Courses Semester Hours Select 1 of the following literature courses: **GER** GER **GER** Select 2 of the following skills courses: **GER** 3310 **GER** GER *Higher-level course may be substituted with departmental approval. **Fourth-year course may be substituted with departmental approval. Modern Languages Major for Bachelor of Arts Required Courses The composite modern language's major involves a minimum of 48 hours in any two modern languages, at least 12 hours in each. Students are advised into intermediate and advanced classes in each language on the basis of individual background and need. The minimum 12 hours in each of the two chosen languages must be taken as follows: Spanish SPA 2110 SPA 2120 SPA 2310 SPA 2320 Subtotal French FRE 2010 FRE 2020 FRE 2110 FRE 3010 German GFR 2110 GER 2120 GER 2310

in one of the following areas of emphasis are required.

Frenc	ch Em	phasis	
	FRE	2010	Intermediate French I
1	FRE	2020	Intermediate French II
]	FRE	2110	French Reading and Conversation
1	FRE	3010	Introduction to Advanced French Studies
	FRE	3110	Survey of French Literature I
i	FRE	3120	Survey of French Literature II
	FRE		French Phonetics: Theory and Practice
i	FRE	3310	Advanced French Composition and Grammar
	FRE	3320	Advanced Conversation
]	FRE	3550	French Historical Perspectives
1	FRE	3560	Contemporary Sociocultural Issues
1	MDL	4960	Teaching Foreign Languages in the Secondary Schools
	Anv 2	of the fo	ollowing:
	FRE	4520	Modern French Theater
]	FRE	4530	The French Novel
1	FRE	4750	Senior Seminar in French Studies
	Total		
Corm	an Fi	nphasi	is a
	GER	2110	German Reading and Conversation
	GER	2120	German Civilization
	GER	2310	German Vocabulary Building and Grammar
	GER	2320	German Composition and Free Writing
	GER	3150	German Phonetics: Theory and Practice
	GER	3210	Survey of German Literature I
	GER	3220	Survey of German Literature II
(GER	3230	Contemporary German Writers
(GER	3310	Advanced German Composition and Grammar
(GER	3510	Lessing, Goethe and Schiller
(GER	4110	The German Novel of the 19th and Early 20th Centuries
	-or		
	GER		German Drama of the 19th and 20th Centuries
	GER	4210	Advanced Conversation: Present-day Germany
			/es
			Teaching Foreign Languages in the Secondary Schools
			42
Spani	ish En	nphasis	
5	SPA	2110	Intermediate Spanish
5	SPA	2120	Spanish Reading and Conversation
100	SPA	2310	Spanish Grammar and Composition I
	SPA		Spanish Grammar and Composition II
	SPA	3110	Advanced Conversation
	SPA	3140	Advanced Composition
	SPA SPA	3150 3200	Spanish Phonetics: Theory and Practice
,	or A		Culture and Civilization of Spain
9		3210	Spanish-American Culture and Civilization
,	-or		Spanish American Canale and Civilization
	SPA	3220	Folklore and Culture of the Mexican Southwest
	SPA		Introduction to Literary Studies in Spanish
5	SPA	3400	Survey of Spanish Literature I
	-or	-	
5	SPA	3410	Survey of Spanish Literature II
5	SPA	4010	Advanced Spanish Writing and Grammar I
5	SPA	4020	Advanced Spanish Writing and Grammar II
5	SPA	4110	Contemporary Spanish Literature
	-or		
	SPA	4120	Contemporary Latin-American Literature
			Teaching Foreign Languages in the Secondary Schools
1	Total		42

Competer House

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 majors in music education and music performance, and a minor in music.

The department also offers courses specifically designed for non-music students wishing to enhance their general understanding and enjoyment of music. 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, and chamber music.

The majors in music education and music performance are professional degree programs designed for students wishing to prepare themselves for careers as music teachers or performers. Students pursuing these majors are not required to complete a minor for graduation.

The music education degree program prepares students for careers teaching instrumental and/or choral music at levels K-12. To be admitted to this program, students must pass the Music Education Entrance Examination. By taking an additional 16 semester hours beyond the bachelor's degree (EDU 4190 and EDS 4290), the student becomes eligible for K-12 licensure in the State of Colorado. With these additional 16 hours, 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 seeking teaching credentials in music must pass the Music Education Comprehensive Examination and must also satisfy all applicable requirements of the teacher education and licensure programs in the School of Professional Studies.

The music performance degree program prepares students for further graduate study 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.

Further information, including examination policies, procedures, and requirements, is provided in the departmental publication titled Advising Information. All music majors and minors should familiarize themselves with this publication.

New and 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 Music Department at least two weeks prior to the beginning of the semester.

Music Education Major for Bachelor of Arts Core Requirements for all Music Education Majors

Core i	Kequirei	ments for an Music Education Majors Semester Hours
MUS	1110	Music Theory I
MUS	1120	Music Theory Lab I
MUS	1130	Music Theory II
MUS	1140	Music Theory Lab II
MUS	2110	Music Theory III
MUS	2120	Music Theory Lab III
MUS	2130	Music Theory IV
MUS	2140	Music Theory Lab IV
MUS	1210	Music Literature I
MUS	1220	Music Literature II
MUS	3210	Music History I
MUS	3220	Music History II
MUS	1710	Private Instruction I (Primary Performance Area)
MUS	1720	Private Instruction II (Primary Performance Area)
MUS	2710	Private Instruction III (Primary Performance Area)
MUS	2720	Private Instruction IV (Primary Performance Area)
MUS	3710	Private Instruction V (Primary Performance Area)
MUS	3720	Private Instruction VI (Primary Performance Area)
MUS	161A	Class Voice I
MUS	161B*	Class Piano I
MUS	162B*	Class Piano II
MUS	261B*	Class Piano III
MUS	262B*	Class Piano IV
		s whose primary performance area is piano may elect another area of study in place of
class p	iano; ho	owever, they still must pass the Piano Proficiency Examination before enrolling in MUS

3520 or MUS 3530.

	Select	10 hour	rs from the following:**
	MUS	2810*	* Ensemble
	MUS		* Ensemble
			mbles must be chosen from those appropriate to the student's area of emphasis: choral
			enroll in at least 8 hours of choral ensembles and instrumental majors must enroll in at
			of instrumental ensembles. Students majoring in music education must enroll in an ensem-
	ble au	ring eac	h semester of full-time residence except when student teaching.
	MUS	3150	Instrumental and Choral Scoring and Arranging
	MUS	3410	String Techniques and Materials
	MUS	3420	Guitar Techniques and Materials
	MUS	3450	Brass Techniques and Materials
	MUS	3460	Percussion Techniques and Materials
	MUS	3510	Basic Conducting
	MUS	4330	Elementary School Music Methods and Materials
	MUS	4390	Supervised Field Experience: MUS 4330
	MUS	4340	Secondary School Music Methods and Materials
	MUS	4390	Supervised Field Experience: MUS 4340
	RDG	3280	Teaching of Reading and Writing in the Content Areas
	EDU	2120	Elementary Education in United States
	EDU	2640	Urban and Multicultural Education
	EDS	3200	Educational Psychology Applied to Teaching
	SED	3600	The Exceptional Learner in the Classroom
	Total.		90
	In add	lition to	the above core requirement, music education majors must select one of the following
	empha		the acceptance requirement, made constitution majors made select one of the following
Che	oral En		
CHC			Vocal Diction
	MUS	1400	
	MUS	3520 4420	Choral Conducting and Literature
			Vocal Pedagogy
	Total.		
Inst	rumen	tal Em	nphasis
	MUS	3430	Woodwind Techniques and Materials
	MUS	3480	Marching Band Techniques and Materials
	MUS	3530	Instrumental Conducting and Literature
	Total.		
Mu	sic Pe	erforn	nance Major for Bachelor of Arts
			ement for all Music Performance Majors Semester Hours
	MUS	1110	Music Theory I
	MUS	1120	Music Theory Lab I
	MUS	1130	Music Theory II
	MUS	1140	Music Theory Lab II
	MUS	2110	Music Theory III
	MUS	2120	Music Theory Lab III
	MUS	2130	Music Theory IV
	MUS	2140	Music Theory Lab IV
	MUS	1210	Music Literature I
	MUS	1220	Music Literature II
	MUS	3210	Music Literature II
	MUS	3220	
	MUS	1710	Music History II
	MUS	1720	Private Instruction II (Primary Performance Area)
	MUS	2730	Performance III (Primary Performance Area)
	MUS	2740	
	MUS	3730	Performance IV (Primary Performance Area)
	MUS	3740	Performance V (Primary Performance Area)
	MUS	4730	Performance VI (Primary Performance Area)
	MUS	4740	Performance VIII (Primary Performance Area)
	MIOS	4/40	renormance viti (rinnary renormance Area)4

		ars from the following:	- 4 - 7 - 1
		Class Instruction I (Secondary Performance Area)	
		Class Instruction II (Secondary Performance Area)	
		Private Instruction I (Secondary Performance Area)	
		s from the following:	
		* Ensemble	
		* Ensemble	
	MUS 3510	Basic Conducting	
		Senior Recital	
	*Must be Class Exception: Stu pass the Privat **Ensembles n	s Piano I and II unless student is able to pass the Private Inst idents electing the organ emphasis must take Class Voice I an te Instruction Audition in voice. must be chosen from those appropriate to the student's area of erformance must enroll in an ensemble during each semester	ruction Audition in piano. d II unless they are able to femphasis. Students major-
		the above core requirement, all music performance majors mu	ast select one of the follow-
	ing emphases:		
Voic	ce Emphasis		
	MUS 1400	Vocal Diction	
	MUS 4420	Vocal Pedagogy	
	Total		6
Piar	no Emphasis		
I iai	MUS 3100	Counterpoint	
		Piano Pedagogy	
		Tamo Todagogy	
Org	an Emphasis		
		Counterpoint.	
		Choral Conducting and Literature	
	Total		
Gui	tar Emphasis		
		Counterpoint	
		Instrumental and Choral Scoring and Arranging	
	Total		6
Woo	odwind, Bras	s, String or Percussion Emphasis	
	MUS 3150	Instrumental and Choral Scoring and Arranging	
		Instrumental Conducting and Literature	
		8	
N/:-	on in Musi	la	
IVIII	nor in Musi Required Cou		Semester Hours
	MUS 1110	Music Theory I	
	MUS 1120	Music Theory Lab I	
	MUS 1130	Music Theory II	
	MUS 1140	Music Theory Lab II.	
	MUS 2110	Music Theory III	
	MUS 2120	Music Theory Lab III	
	MUS 1210	Music Literature I	
	MUS 1220	Music Literature II	
	MUS 1710	Private Instruction I	
	MUS 1720	Private Instruction II	
	Select two hou	ars from the following:	
	MUS 2810	Ensemble	
	MUS 2810	Ensemble	
	Upper-Division	n Elective in Music Theory, History, Literature, or Pedagogy	
	Total		

PHILOSOPHY DEPARTMENT

Philosophical questions are of the most enduring interest because they are fundamental to our intellectual and practical concerns. As a critical investigation into the assumptions and implications associated with all disciplines, philosophy is interdisciplinary in character. However, this type of inquiry requires technical concepts and methods, so it takes on the character of a specialized discipline. Philosophical inquiry is an interaction between speculative and critical thought, recognizing no pre-established limits in its interests or its critical examinations. Therefore, philosophy as a study program enlarges the student's horizons of ideas throughout the various disciplines in the college, while providing the critical skills necessary to analyze and synthesize these ideas. It encourages students to explore creatively the full range of philosophical options, to consider alternate points of view, and to delve into profound issues. Because of the subject matter, attitudes, and methods employed in philosophy, the student will be much better prepared for leadership in personal life, civic responsibilities, and pursuit of a career.

In addition to offering a variety of courses for students who are planning to take only one or two courses in philosophy, the department offers two programs, both of which feature flexibility and individualized training:

- A major for students seeking a solid, general training/background that can serve either as a basis
 for graduate studies in such varied areas as philosophy, the humanities, law, medicine, business,
 and urban planning and development, or as a basis for a career in which the specialized training
 required is provided by the employer, such as careers in corporate management, government, politics, banking, or education.
- A minor for students who have already chosen a career and seek to complement their specialized training/background with the opportunities afforded by philosophy to increase their career options and generally to increase the quality of their lives.

Students who either major or minor in philosophy are encouraged to take University of Colorado at Denver courses that contribute to the requirements or the balance of their philosophy experience. These students should consult the chair of the Philosophy Department at MSCD when planning to take University of Colorado at Denver courses.

Ph	ilosop	hy Ma	ajor for Bachelor of Arts	
	Requi	urses	Semester Hours	
	PHI	1440	Logic	3
	PHI	3000	History of Greek Philosophy	
	PHI	3020	History of Modern Philosophy	3
	PHI	4100	Senior Seminar	3
	Total .			12
	Addit	ional C	ourse Subject Areas Required	
	Lower	r-Divisio	on:	
	Introd	uctory (Courses	6
	Upper	-Divisio	n:	
			nd/or Epistemology	
			Social Philosophy	
	One p	hilosoph	nical problem, one philosopher, or one philosophical movement	3
	One c	ourse re	lating philosophy to another field, such as religion, art, science, or	history3
	Additi	ional Ele	ectives at Any Level	
	(selec	ted in co	onsultation with and approved by the Philosophy Department)	6
Mi	nor ir	Phil	osophy	
1441		red Co		Semester Hours
	PHI	1010	Introduction to Philosophy	
	PHI	1030	Ethics	
	PHI	1110	Language, Logic and Persuasion.	
	Electi	ves		
			f 11 additional semester hours of which 7 are upper-division courses a with and approved by the Philosophy Department to make a total of	

PHYSICS DEPARTMENT

The Physics Department offers coursework leading to a bachelor of science and to a bachelor of arts degree. Minors in physics and theoretical physics are also offered. Undergraduates preparing for work in industry or for graduate study should take the bachelor of science in physics. Students preparing to teach secondary school physics should take the bachelor of arts in physics in addition to satisfying the requirements for licensure in science. See the Secondary Education Department section for details.

The Physics Department is taught jointly by the faculties of MSCD and the University of Colorado at Denver. MSCD students will receive instruction from the faculty of both institutions.

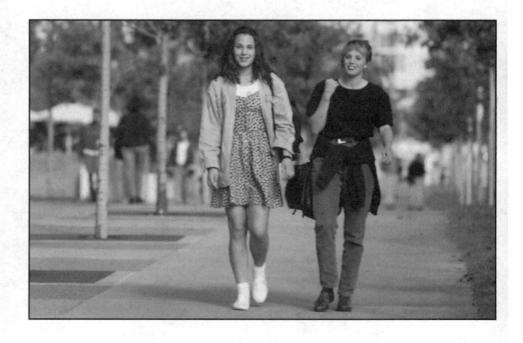
The Physics Department also offers courses in astronomy, which are designed primarily as general interest courses.

inter	rest cou	irses.		
Phy	sics I	Major	for Bachelor of Arts	
		red Cou		Semester Hours
	PHY	2311	General Physics I	
	PHY	2331	General Physics II	
	PHY	2321	General Physics I Laboratory	
	PHY	2341	General Physics II Laboratory	
	PHY	2811	Modern Physics	
	PHY	2820	Classical Physics	
	PHY	3211	Analytical Mechanics	
	PHY	3810	Ouantum Mechanics	
	0.000		tion (Select A or B)	
	Option		tion (Select A of B)	
	PHY	3711	Physics Laboratory I	2
	PHY	4721	Advanced Physics II Laboratory	
	PHY	4920	Physics Senior Seminar	
			Thysics belief beninia	
	Option		Communication I Discrete	2
	PHY	4610	Computational Physics I	
	PHY	4620	Computational Physics II	
	PHY	4920	Physics Senior Seminar	
	Electi			
			f 10 additional semester hours of upper-division physics courses s	
			ith and approved by the Physics Department	
	Total.		*********************************	
	A one-	year sec	quence of PHY 2010 onsultation with and approved by the Physics	Department 10
	A one	-year se	quence of PHY 2010 - PHY 2020 - PHY 2030 - PHY 2040 ma	y be substituted for the
			HY 2331 - PHY 2321 - PHY 2341 requirements with the consent of	
			rged to take one year of general chemistry and one year of electronic	cs. These courses should
	be cho	sen in co	onsultation with the student's adviser in the Physics Department.	
Phy	sics I	Major	for Bachelor of Science	
		red Cou		Semester Hours
	PHY	2311	General Physics I	4
	PHY	2331	General Physics II	
	PHY	2321	General Physics I Laboratory	
	PHY	2341	General Physics II Laboratory	
	PHY	2811	Modern Physics	
	PHY	2820	Classical Physics	
	PHY	3211	Analytical Mechanics	
	PHY	3331	Electricity and Magnetism	
	PHY	3411	Thermal Physics	
	PHY	3711	Physics Laboratory I.	
	PHY	3810	Ouantum Mechanics I.	
	PHY	4810	Atomic and Molecular Structure	
	1111	4010	Atomic and Molecular Structure	

	Requi	ired Op	tion (Select A or B)			
	Option A:					
	PHY	4711	Advanced Physics I Laboratory			
	PHY	4721	Advanced Physics II Laboratory			
	PHY	4920	Physics Senior Seminar			
	Option	n B:				
	PHY		Computational Physics I			
	PHY	4620	Computational Physics II			
	PHY	4920	Physics Senior Seminar			
	Electi	Ves				
M:	Total . A one- 2311 - studen studen should	year see PHY 23 of is urge that take H	f 8 additional semester hours in upper-division physics courses must be selected in vith and approved by the Physics Department			
MI		Phys				
		red Co				
	PHY	2311	General Physics I			
	PHY	2331	General Physics II			
	PHY	2321	General Physics I Laboratory			
	PHY	2341	General Physics II Laboratory			
	PHY	2811	Modern Physics			
	PHY	2820	Classical Physics			

A one-year sequence of PHY 2010-PHY 2020-PHY 2030-PHY 2040 may be substituted for the PHY 2311 - PHY 2321 - PHY 2321 - PHY 2341 requirements with the consent of the Physics Department.

A minimum of 8 additional semester hours in upper-division physics courses must be selected in consultation and approved by the Physics Department



Minor in Theoretical Physics

Students entering this program are expected to have facility in using ordinary differential equations, vector calculus, and linear algebra. These skills are normally acquired in MTH 2420, MTH 3140, and MTH 3420 or in PHY 3110 and PHY 3120.

With the consent of the Physics Department, students with strong backgrounds in physics may elect not to complete PHY 2311 and PHY 2331 and may substitute 8 semester credit hours of approved physics electives.

Requi	red Cou	Irses Semester Hours	S
PHY	2311	General Physics I	1
PHY	2331	General Physics II	+
		Analytical Mechanics	
PHY	3331	Electricity and Magnetism	1
PHY	3411	Thermal Physics	5
PHY	4610	Computational Physics I	2
		Continuum Physics	
Total		24	Ĺ

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 an area of emphasis 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 and urban studies programs.

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 adviser in the department.

Political Science Major for Bachelor of Arts

Required Courses			Semester Hours
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)	3
Subto	tal		
Electi	ves		
A min	imum o	f 21 additional semester hours of political science must be completed.	At least 18 of these
21 ho	urs must	be upper-division courses (3000- and 4000-level) and must be appro-	oved by the depart-
as app	roved el		
Subto	tal	***********************************	18

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 Minor

LILLERI	CICII	CC IVIIIIOI						
Requi	ired Co	urses		S	eme	este	Ho	ours
		American National Government						
PSC	1020	Political Systems and Ideas						
PSC	3050	Political Theory						3
Subto	tal							9
Electi	ves							
A min	imum o	f 12 additional semester hours are required in political science	e course	s. A	t lea	st 9	of the	hese
12 ho	urs must	be in upper-division courses (3000- and 4000-level) and mu	st be app	rove	d by	the	der	part
	General ved elec	ly, students may apply only 6 hours of credit in nonclassroon tives.	courses	tow	ard	the 1	najo	or a
Subto	tal							. 12
T . 1								21

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.

Required Con		Semester Hours						
Basic courses	required for all public administration minors:							
PSC 1010	American National Government	3						
PSC 3020	Introduction to Public Administration	3						
Two of the fol	lowing courses:							
PSC 3220	Public Policy	3						
PSC 3240	Intergovernmental Relations							
PSC 3260	Politics of Budgeting							
PSC 3280	Public Personnel Administration	3						
ACC 3200	Governmental Accounting	3						
One of the fol	lowing courses:							
CMS 2010	Principles of Information Systems	3						
MTH 1210	Introduction to Statistics							
Internship PSO	C 4120 or Substitute Course (minimum)	3						
Total								

A governmental internship will be required of all students for a minimum of one semester and a minimum of three semester hours. This requirement may be waived for students with at least one calendar year of administrative work experience in a government agency.

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 26 semester hours. Contact the Political Science Department for details.

Major and Minor in Urban Studies

Please see the Urban Studies section of this Catalog.

Internships

In addition to scheduled classes, political science students are encouraged to enroll for at least one offcampus 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 are offered each semester and give the student a greater variety of choice. Please be sure to check the current *Class Schedule* 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 oncampus 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.

Urban Studies Program

Please see an adviser in the Political Science Department for updated changes being made for this program.

A bachelor of arts or a bachelor of science degree with a major in urban studies is offered. The bachelor of science degree is recommended for those students desiring a stronger background in quantitative aspects of urban studies. Coursework is jointly offered by MSCD and the University of Colorado at Denver; the major is offered at MSCD. The emphasis of this program is an interdisciplinary approach to learning. To support this approach, six areas of emphasis are offered within the major:

- · local government/urban planning.
- · housing patterns and alternatives.
- · cultural lifestyles.
- · transportation and communication.
- · nonprofit organization administration.
- · business, management, and urbanization.

Urban Studies Major for Bachelor of Arts

The requirements total 46 semester hours and include:

- 25-27 hours of core courses.
- 9 hours selected from each of four areas of process.
- 2 hours in an area of emphasis to be selected by the student.
- 6 additional hours for a bachelor of science degree.
- Urban studies' majors who do not wish to pursue a minor in some other discipline will be required
 to take at least 14 semester hours, for a total of 60 semester hours. The 14 semester hours must be
 selected in consultation with a faculty adviser.
- There are different requirements for the nonprofit business administration, business, management, and urbanization emphases.

Requi	red Cou	rses Semester Hours	
URS	1000	Introduction to Urban Studies	
URS	2000	An Inside Look at Urban Institutions	
URS	3000	World Patterns of Urbanization	
URS	3800	Applied Urban Research Methods	
URS	4890	Interdisciplinary Seminar	
URS	4990*	Internship in Urban Studies	
		ing course, which may be taken from nonprofit business administration,	
English	h or con	nmunications*	
Statistics, which may be taken from economics, geography, mathematics, psychology,			
or soci	ology*		
Total.	*****		

*Nonprofit organization administration students may elect to fulfill these requirements within the nonprofit organization administration area of emphasis.

A total of 9 hours should be selected from the following areas of processes. Nonprofit organization administration students will take one course from two areas for a total of at least 6 hours. Substitutions for these courses should be arranged through an adviser for urban studies.

Urban	Spatia	Structuring Processes
URS	3100	Internal Structure of the City
URS	3510	Community Development and Planning
URS	4000	Urban Simulation/Game
GEG	2040	Geography of Denver
GEG	3600	Urban Geography
GEG	4610	Urban and Regional Planning
Urban	Politica	al Processes
URS	2100	An Analysis of Urban Boundaries
URS	3500	Emerging Urban Political Systems
URS	4000	Urban Simulation/Game
PSC	3000	American State and Local Government
PSC	3020	Introduction to Public Administration
SOC	3710	Politics and Power
Urban	Econor	mic Processes
ECO ·	2010	Principles of Economics—Macro
ECO	2020	Principles of Economics—Micro
ECO	3300	State and Local Finance
ECO	3350	Urban Economic Analysis
ECO	3400	Transportation Economics
ECO	3450	Environmental Economics
SOC	3240	Poverty in America
Urban	Social	Processes
GEG	1300	Geographic Analysis of Current Social Issues
GEG	3620	Population, Resources, and Land Use
GEG	4620	Land Use: Residential
SOC	3090	Urban Sociology
SOC	3240	Poverty in America
Total.		

Areas of Emphasis

In each of the first four following areas of emphasis, the student selects a minimum of 12 hours with a minimum of 6 in urban studies. The student may take any combination of interdisciplinary courses related to the area of emphasis to be selected in consultation with an adviser. One of the courses should be a skills course related to the area of emphasis.

Local Government—Urban Planning Emphasis

This area of emphasis concentrates on the basic conceptual and theoretical planning processes as they relate to and actually appear in urban government occupations and professions. The area of emphasis is designed for students seeking entry into government occupations or seeking advanced study in public administration or urban planning beyond the bachelor's degree.

Required Courses		Irses Semester Hours	
	URS	2500	New Front Range Communities
	URS	2890	Urban Problems: Topics
	URS	3510	Community Development and Planning
	URS	3890	Readings in Urban Studies
	URS	4000	Urban Simulation/Game
	URS	4100	Urban Environmental Perception
	URS	4500	Cities of the Future
	URS	4510	Community Involvement Methods
	URS	4710	The Urban Elderly: Prisoners of Space

Housing Patterns and Alternatives Emphasis

This area of emphasis concentrates on the assembly and development of residential land, the nature of public and private programs to provide housing and the maintenance, and rebuilding of neighborhoods. A broad range of topics includes the evolution of public intervention in housing and residential renewal, the conflict between physical and human criteria in housing decisions, and constraints on the public's ability to deal with housing issues. Completion of this area of emphasis provides a foundation for graduate work and/or employment with a wide range of public and private housing agencies.

Cultural Lifestyles Emphasis

This area of emphasis concentrates on the impacts on the urban landscape of the lifestyles of various cultures, whether ethnic, racial, chronological, religious, economic, or gender. The consequences of these impacts are viewed as among the most significant determinants of urban structure, form, function, and social interaction. The student is provided with specialized training and experience for entry into professions with public or private agencies that deal directly with these groups within a pluralistic urban environment.

Requi	red Co	Irses Semester Hours
URS	2500	New Front Range Communities
URS	3710	Ethnic Groups in United States Cities
URS	3890	Readings in Urban Studies
URS	4000	Urban Simulation/Game
URS	4100	Urban Environmental Perception
URS	4710	The Urban Elderly: Prisoners of Space

Transportation and Communication Emphasis

The transportation-communication area of emphasis has three basic academic focuses: (1) to aid students in refining their perceptions of the various networks that exist in the urban setting; (2) to provide tools and techniques to analyze these networks; and (3) to increase the students' understanding that transportation and communication are interdependent with such factors as land use, politics, and demography. Completion of this area of emphasis provides a foundation for a professional career or further graduate training.

Requi	red Cou	Semester Hours
URS	2280	Introduction to Transportation Systems
URS		Urban Problems: Topics
URS	3280	Transportation: Issues and Policies
URS	3890	Readings in Urban Studies
URS	4000	Urban Simulation/Game
URS	4500	Cities of the Future

Nonprofit Organization Administration Emphasis

The Nonprofit Organization (NPO) Administration emphasis combines classroom theory and practical experience in a comprehensive format. Students' formal classroom experiences are supplemented by at least 20 hours per week during two semesters in placement experiences. All fieldwork is carefully supervised and student progress will be measured against learning objectives cooperatively developed for each course by the student, agency supervisor, and the college coordinator or faculty member.

This area of emphasis is designed to provide an educational program for a very specific administrative level in nonprofit agencies and organizations. The directive skills include development and management of volunteer programs, fundraising, proposal writing, program and human resource development.

Requi	red Cou	Irses Semester Hours	i
URS F	Required	Core Courses)
		ives	
NOA :	Emphas	is)
HSP	2010	Principles of Nonprofit Administration	ļ
HSP	3210	Organizational Stability of Nonprofit Organization	ļ
HSP	3610	Financial Accountability and Organizational Control of NPO's	ļ
HSP	4020	Fundraising and Proposal Writing for NPO's	ļ
HSP	4310	Human Resource Development in NPO's	ļ
Total.			

Business, Management and Urbanization Emphasis

This area of emphasis stresses the interrelationships between the private business sector and the public policy and urban designers and decision makers. Public sector/private sector/policy makers' cooperation, or the lack thereof, in the future, will have a direct effect on urban lifestyle. Issues covered are the roles of business and urban government in the overall process of urbanization; the functions of managing business and managing government; the importance of sales tax revenues to both business and government; and, with less governmental employment in the future, the changes that are in store for small and medium-sized businesses. This area of emphasis is directed toward the student seeking an undergraduate major in management or administration of government organizations at the local, state, or federal level or in management positions in private industry.

Required Courses	Semester Hours
URS Core	25–27
Business, Managem	ent, Urbanization Emphasis
MGT XXX (any	MSCD introduction to business course)
MGT 2500 Sma	all Business Management
	anizational Management
MKT 3000 Prin	ciples of Marketing
Six hours to be sele	cted from:
ECO 3500 Mai	nagerial Economics
MGT 4530 Org	anizational Behavior3
	keting Research
MKT 3110 Adv	vertising Management
	keting of Services
MKT 3310 Cor	sumer Behavior
ACC 3080 Sma	all Business Taxation

Urban Studies Major for Bachelor of Science

The requirement for the major in urban studies leading to the bachelor of science degree includes at least 6 semester hours in addition to the bachelor of arts degree. The 6 hours must be taken from the following list of courses:

CMS	2010	Principles of Information Systems
CMS	2230	Word Processing
CMS	3120	BASIC Programming and Graphics for Computers
MTH	1310	Finite Mathematics for the Management and Social Sciences

Urban Studies Minor

Minors for both the bachelor of science degree and the bachelor of arts degree are available. The minor can be designed to provide the student with course experiences that are most relevant to the student's occupational and educational goals.

Students, in consultation with the department offering related courses and the student's urban studies faculty adviser, will develop individual minors that will reflect the best possible elective curriculum, and will ensure that an urban emphasis is maintained.

Requi	irses Semester Hours	
URS	1000	Introduction to Urban Studies
URS	2000	An Inside Look at Urban Institutions
COM	2610	Introduction to Technical Writing
Subtot	al	9
12 add	litional	semester hours are required to complete the minor. The elective courses are to be selected
in con	sultation	with a URS faculty adviser.
Electiv	ves	i with a URS faculty adviser.
Total.		

PSYCHOLOGY DEPARTMENT

Psychology Department student outcome goals:

Upon completion of a degree program in psychology students will be able to:

- Demonstrate a knowledge of the major historical contributions and themes, basic principles, current issues, and emerging developments in psychology.
- Communicate knowledge of the field of psychology both orally and in writing, the latter following the American Psychological Association guidelines.
- Relate psychological principles and methodology to the problems and issues in other disciplines.
- Conduct independently a basic literature search on a given problem in psychology and integrate
 this new information into a coherent understanding of the basic issues relating to this problem.
- Apply the fundamentals of research methodology and statistical analysis to the interpretation and evaluation of research reports.
- Express an appreciation for the value of psychological knowledge in improving our world and for individual differences and universal commonalties in human experience.

The major or minor program is to be planned in consultation with an adviser from the Psychology Department by the beginning of the junior year or upon transfer into the department.

Major for Bachelor of Arts

	. ~				
-	red Cou		Semester 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	3		
PSY	3320	Psychological Research Methods II			
PSY	4510	History and Systems of Psychology	3		
Subtot	al		18		
In add	ition, stu	udents must choose one course from each category:			
Social					
PSY	2150	Cross-Cultural Psychology	3		
PSY	2410	Social Psychology			
PSY	3050	Psychology of Gender			
PSY	3470	Psychology of Violence and Aggression	3		
	imental	1 Sychology of Violence and rigglession			
PSY	3570	Cognitive Psychology	2		
PSY	3590	Cognitive Psychology			
		Theories of Motivation			
PSY	4300	Sensation and Perception			
PSY	4310	Physiological Psychology			
PSY	4390	Psychology of Learning	3		
Clinic	al/Person				
PSY	2160	Personality and Adjustment	3		
PSY	3000	Theories of Personality			
PSY	3100	Psychology of Counseling	3		
PSY	3620	Abnormal Psychology	3		
Devel	opmenta	d			
PSY	2210	Psychology of Human Development	3		
PSY	3250	Child Psychology			
PSY	3260	Psychology of Adolescence	3		
PSY	3270	Adulthood and Aging			
Subtot	al				
		ninimum of 15 additional semester hours in psychology courses selecte			
		oved by a Psychology Department adviser, making a total of 45 hours in			
		f these hours may be PSY 2950 courses, and no more than 6 of these ho			
		eximum number of hours in psychology a student may count toward a	bachelor of arts		
	degree is 60.				
	Subtotal				
Total I	Total Hours Required for the Major				

Additi	onal Re	quirement
BIO	1000	Human Biology for Non-Majors
-c	r-	
BIO	1080	General Introduction to Biology
or equ	ivalent	

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 coursework 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, Physiological Psychology, Industrial Psychology, Sensation and Perception, Cooperative Education in Psychology, Teaching of Psychology, and Advanced Statistics. Therefore, students should consult with a Psychology Department adviser to choose appropriate psychology electives.

Students interested in the gerontology area of emphasis must select a minimum of 30 hours (see list under Sociology Department, gerontology area of emphasis) in addition to the 30 hours of required courses for the psychology major. This must be done in consultation with and approved by a Psychology Department adviser. The gerontology emphasis may be applied in lieu of the 15 elective hours in the psychology major and the minor requirement. Students may not count the same course twice toward meeting requirements in both the major and the gerontology emphasis; different courses must be chosen to complete the major hours and the gerontology hours.

Students desiring secondary licensure in social studies should contact an adviser in the Secondary Education Department. The psychology emphasis requires PSY 1001, PSY 3260, and six additional hours of electives (three upper-division); PSY 2210 or PSY 2410 is suggested. (Please see pages XXX of this *Catalog* for required courses.)

In meeting the requirements for the psychology major (described above), transfer students must take a minimum of 15 semester hours of psychology coursework 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.

NOTE: The Psychology Department does not count CLEP credit toward the total number of semester hours required for the major or minor; extra coursework is necessary to make up the difference. The Psychology Department does not accept correspondence study courses toward the total number of semester hours required for a major or minor. However, both CLEP and correspondence study credit can count toward the degree. Students who wish to use psychology courses to fulfill General Studies 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 exception is PSY 4510, History and Systems of Psychology, which may be used as a Senior Experience without being replaced in the major or minor. Please consult with an adviser.

Holistic Health and Wellness Education Multi-Minor

The multi-minor may be arranged through the Psychology Department and includes the required courses listed under the holistic health and wellness education multi-minor on page XXX of this *Catalog*.

Minor in Psychology

Requ	ired Co	urses Semester Hours
PSY	1001	Introductory Psychology
PSY	4510	History and Systems of Psychology
four o		these two required courses, students must take at least one course from any two of the se listed on the previous page under: Social, Experimental, Clinical/Personality, and al.
Subto	tal	

ELECTIVE COURSES

In addition to the required courses, students must take 12 semester ho	ours of PSY courses chosen from
those listed under the major or other department offerings	
Total Hours Required for the Minor	24

No more than 6 semester hours may be PSY 2950 variable topics courses, no more than 3 semester hours may be PSY 3970 Practicum, and at least two electives in psychology (6 semester hours) taken at MSCD must be upper-division. See also the NOTE in the preceding Psychology Department section.

SOCIOLOGY, ANTHROPOLOGY AND SOCIAL WORK DEPARTMENT Sociology

Sociology is the study of society in all of its forms, 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 and solve practical problems and issues that exist in the everyday social world. This means a student majoring in sociology will be able to apply what they have learned in a variety of work-related settings or to go on to graduate school.

A major in sociology requires that students take and pass 36 hours in sociology, with a minimum of a "C" in all sociology courses taken. The student majoring in sociology will take 15 required hours and 21 elective hours, for a total of 36 hours in the discipline.

Sociology Major for Bachelor of Arts

Requi	red Cou	rses Semester Hours	
SOC	1010	Introduction to Sociology	
SOC	3320	Sociological Theory: Past and Present	
SOC	3590	Social Statistics	
SOC	3600	Research in the Social Sciences	
SOC	4600	Advanced Research in the Social Sciences	
-(or—		
SOC	4710	Applied Sociology	
Total.			

ELECTIVES

A minimum of 21 additional semester hours in sociology is required to complete the major. Students may choose as electives any additional courses offered in sociology. At least 12 upper-division semester hours in sociology must be completed at MSCD by students majoring in sociology. The department recommends that the student's choice of electives be made in consultation with an adviser.

ELECTIVES: APPLIED SOCIOLOGY

The major focus of the sociology major is applied sociology. The focus in applied sociology extends the applied perspective of the department that begins with the required courses in the major. Applied courses emphasize the practice of sociology and the application of sociology to real social issues. Classes in this area emphasize practical skills, knowledge, and theories that the sociologist can use outside of the academic environment. Applied sociology includes fieldwork in government, business, non-profits, and other organizations and agencies. Courses that are specifically designed to meet these criteria are listed below.

3090	Urban Sociology
3160	Industry, Work and Occupations
3810	Population Issues
4200	Social Stratification and Inequality
4210	Structure and Dynamics of Modern Organizations
4220	Society and the Environment
4300	Social Change
4600	Advanced Research in the Social Sciences
4710	Applied Sociology
	3160 3810 4200 4210 4220 4300 4600

ELECTIVES: GENERAL SOCIOLOGY

As an alternative to the applied sociology focus, the student may choose instead to create a program of 21 elective hours that meets their own needs and interests. Some possible areas of concentration are listed in the section on sociology minors below. Students should, however, feel free to create their own list of classes that meet the necessity of taking 21 elective hours in sociology.

It is recommended that the student build an area of concentration with the help of a sociology adviser.

GERONTOLOGY EMPHASIS

Gerontology deals with the causes and consequences—biological, psychological, and social—of aging. Drawing from many fields of academic study, this area of emphasis prepares the student for professional and paraprofessional careers in human services for the aging population.

To complete the gerontology area of emphasis, a student selects (in addition to the 15 hours of required courses in the sociology major) in consultation with and approved by the Sociology, Anthropology and Social Work Department, a minimum of 45 hours from the following list of courses. The gerontology area of emphasis may be applied in lieu of the 21 elective hours in the sociology major and the minor requirement.

Requi	red Cou		Semester Hours
SOC	1040	Introduction to 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	3
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
SWK	3030	Social Work with the Aging	4
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	3
HES	1050	Dynamics of Health	3
HES	2040	Introduction to Nutrition	3
SPE	4760	Communication and the Elderly	3
A min	imum o	f 45 hours from the courses listed above is required	45

Minor in Sociology

Requi	red Co	urse	
SOC	1010	Introduction to Sociology	3

A minimum of 15 additional semester hours in sociology courses, selected in consultation with a department adviser, is required bringing the total to 18 semester hours. At least 6 upper-division hours of the minor must be completed at MSCD.

Areas of concentration are offered as suggestions for students who wish to explore a particular subdiscipline of sociology in greater depth. The courses in each concentration focus on the issues, theories, and research in a specific area of sociology.

Suggested Areas of Concentration for a Minor in Sociology

The Urban	n Com	munity Semester Hours	
SOC	3090	Urban Sociology	
SOC	3130	The Chicano Community	
SOC	3140	The Black Community	
SOC	3220	Race, Gender, and Ethnic Groups	
SOC	3810	Population Issues	

Se	ocial Dev	iance	
	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
T	he Famil	lv	
	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
M	edicine	and He	ealth
	SOC	1040	Introduction to Gerontology
	SOC	3040	Contemporary Issues in Gerontology
	SOC	3100	Death and Dying
	SOC	3800	Health and Healers
	SOC	3830	Mental Disorders
So	cial Stra	atificat	ion
	SOC	3220	Race, Gender and Ethnic Groups
	SOC	3240	Poverty in America
	SOC	3430	Sociology of Gender Roles
	SOC	4200	Social Stratification and Inequality
A	nthrop	ology	

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.

Anthropology Major for Bachelor of Arts

Requi	red Co	irses	5	Se	m	es	st	eı	r	H	lo	u	rs
ANT	1010	Physical Anthropology and Prehistory											. 3
ANT		Introduction to Cultural Anthropology											
ANT		Human Evolution											
ANT	2330	Cross-Cultural Communication											. 3
ANT	2640	Archaeology									•		. 3
Electiv	ves								(14);		*:		21
Total.													36

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

Students desiring teacher licensure in social studies should see an adviser in the Secondary Education Department.

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.

Requi	red Co	irses	Semester Hours
ANT	1010	Physical Anthropology and Prehistory	
ANT	1310	Introduction to Cultural Anthropology	
Subtot	al		
Electiv	ves		
Total.		* * * * * * * * * * * * * * * * * * * *	

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

Behavioral Science

Major for Bachelor of Arts

This is a distributed major, offering students a structured overview of the social sciences. 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 levels. The student must have preliminary approval of the selected program by an adviser from the Sociology, Anthropology and Social Work Department. A minimum of 12 upper-division hours in the major must be taken at MSCD.

Requi	Required Courses													
ANT	1310	Introduction to Cultural Anthropology												
		Principles of Economics—Macro												
HIS	1220	American History since 1865												
PSC		American National Government												
PSY	1001	Introductory Psychology												
SOC	1010	Introduction to Sociology												
Subtot	al													

ELECTED FOCUS

In addition to the introductory course, each student must select 12 hours in one of the following social science disciplines: anthropology, economics, history, political science, psychology, or sociology. A minimum of 9 upper-division hours must be selected with the approval of an adviser.

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.

Subtotal		 					٠.		٠.		 				 											 ٠.			12	1	
Total	 ŀ.			3				į.					1	Ų,							÷			 :				 	42	2	

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 adviser in the teacher education program.

No minor is offered.

Social Work

Major for Bachelor of Science

Social work is a professional practice. The primary educational goal of the major is preparation for beginning level social work practice in social agencies. In addition, the social work major provides an appropriate foundation for graduates who plan to pursue advanced degrees in social work.

The social work major prepares students for generalist practice with minority or majority clients. The focus of the program is on the needs and strengths of oppressed urban populations, ethnic minorities, and other diverse groups. Majors acquire the knowledge, skills, values, and ethics required for generalist practice with individuals, groups, communities, and larger systems. Theoretical knowledge and fieldwork experiences provide preparation for social work with diverse populations in a variety of settings, such as child welfare, mental health, corrections, gerontological social work, health, public welfare, domestic violence, and developmental disabilities. Students who major in social work are not required to complete a minor.

Individualized Minor

Individualized minors are available in social work, which will complement a variety of health care majors.

Accreditation

The social work major is fully accredited with the Council on Social Work Education. For more information, contact the social work program office at (303) 556-6162 or (303) 556-4464.

Requir	red Cou	urses	Semester Hours
SWK	1010	Introduction to Social Welfare and Social Work	3
SWK	1020	Introduction to Agency Experience	
SWK	2050	Human Behavior and the Social Environment I	3
SWK	2060	Human Behavior and the Social Environment II	
SWK	3410	Introduction to Generalist Practice	4
SWK	3780	Social Welfare Policy	3
SWK	3790	Research in Social Work	
SWK	4010	Advanced Social Work Practice	
SWK	4250	Exploring Current Social Work Issues	
SWK	4410	Advanced Cross-Cultural Social Work Issues	
SWK	4790	Professional Internship I	5
SWK	4810	Professional Internship II	
SWK	4850	Integrative Seminar	
Subtote	al		
Electiv	ves		
		urs from the following:	
SWK	2020	Social Work with Women.	3
SWK	3010	Social Work Services for Children and Adolescents	
SWK	3020	Case Management in Social Work Practice	
SWK	3030	Social Work with the Aging	
SWK	3450	Mutual Aid Groups in Social Work	
SWK	4800	Workshop (Variable Topics)	
SWK	4900	Seminar (Variable Topics)	
		Seminar (variable Topics)	
i orai .			

Case Management: The social work major and the Human Services Department have developed a joint program in case management and developmental disabilities. The purpose of the program is to prepare students to perform the roles and functions of a case manager. An award of completion is granted to individuals who complete the required courses. For more information call (303) 556-6162.

Liberal Arts Foundation and Basic Skill Requirements

Social work majors are required to take the following courses outside the social work program in preparation for the major:

SPE 1010 Public Speaking

		- e
-0	r-	
SPE	1710	Interpersonal Communication
ANT	1310	Introduction to Cultural Anthropology
PSC	1010	American National Government
PSY	1001	Introductory Psychology
SOC	1010	Introduction to Sociology
BIO	1000	Human Biology for Non-Majors
MTH	1210	Introduction to Statistics

Many of the above courses will also fulfill General Studies requirements for graduation.

Multicultural Requirement

Social work majors are required to take two Multicultural classes outside the social work program. Both classes must focus on one specific ethnic minority (African American, Native American, Asian American, or Hispanic) and one must be upper-division.

SPEECH COMMUNICATION DEPARTMENT

Proficiency in one of the areas of speech opens up many careers to the graduate. For instance, in mass communication, radio, television, and film, a graduate might aspire to careers in on-air operations, mass media ideas, promotion, public affairs, or radio-television sales. Graduates might become consultants in advertising or specialists in instructional or educational television or in the public broadcasting service. Careers are open as broadcasting specialists in public relations, public information, business, industry, and government.

An emphasis in speech pathology/audiology provides sound background for students pursuing careers in education, vocational rehabilitation, and health care. Graduates in communication disorders have the prerequisite coursework to pursue a master's degree in speech 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.

Professional and educational theater occupations are open to theater graduates with specialties in stagecraft, sound, engineering, scriptwriting, directing, and acting.

Communications Theory and Organizational Communication: Communication consulting/training and conference planning both present lucrative and satisfying careers to speech graduates specializing in these areas of communication. Job opportunities are available in education, government, business, and industry, as well as private practice as a consultant.

Speech Communication Major for Bachelor of Arts

- · Core courses are required for all areas of emphasis.
- Independent study, topic courses, and experiential education courses such as practicums and internships may be taken in each of the program areas.
- Additional semester hours in speech courses will be selected in consultation with the adviser and approved by the Speech Communication Department.
- Total minimum semester hours for a major in speech communication: 42.

Requi	red Cor	re Courses	Se	em	est	ter	H	ou	rs
SPE	1010	Public Speaking		0.00					. 3
SPE	3200	Oral Interpretation: Prose and Poetry							. 3
SPE	3740	Psychology of Communication							. 3
Total .									. 9

Broadcasting Emphasis

Requi	ired Co	urses	Semester Hours
SPE	2400	Introduction to Radio and Television Broadcasting	3
SPE	3430	Radio-Television Announcing	3
SPE	3440	Television Production	3
SPE	3450	Broadcast Journalism: Radio	
-(or-		
SPE	4450	Broadcast Journalism: Television	3
SPE	3480	Workshop in Radio Production	3
SPE	4480	Seminar Practicum in Broadcasting	
TLC	2490	Beginning Internship in Radio, TV, Film and Mass Communications	
-0	or-		
SPE	2980	Cooperative Education for Speech Communication	1–6
TLC	3490	Advanced Internship in Radio, TV, Film, and Mass Communications	
-	or-		
SPE	3980	Cooperative Education for Speech Communication	1–1
Total .			

Communication Theory Emphasis

Requ	ired Co	urses Semester Hours
SPE	1700	Communication Theory
SPE	1710	Interpersonal Communication: The Individual as a Communicator
SPE	2110	Discussion Methods
SPE	2720	Nonverbal Communication
Total		12

4100

ELECTIVES FOR THE SECONDARY TEACHER EDUCATION PROGRAM

A minimum of six semester hours in speech courses is recommended in consultation with and approved by the Speech Communication Department. These six hours are to be selected from the following list:

SPE	3050	Intercollegiate Forensics
SPE	3080	Great American Speakers
SPE	3220	Stage Movement
SPE	3500	Anatomy and Physiology of the Speech and Hearing Mechanism
SPE	3600	Audiology I
SPE	4080	Rhetorical Criticism of Public Address
SPE	4200	Reader's Theater
SPE	4260	Theater: Practicum I
SPE	4490	Effects of Radio-Television on Contemporary Life
Subto	al	
Total	Minimu	M Hours Paguired

Students seeking secondary licensure in speech education must satisfy the MSCD teacher education program in addition to all of the major requirements.

Speech Communication Minor

All speech communication minors are required to take a minimum of 24 hours including the core (SPE 1010, SPE 3200, and SPE 3740).

Hours taken beyond the core are to be determined in consultation with a speech communication adviser.

Telecommunications

Telecommunications is one of the most beneficial internship programs for communication students in broadcasting. Under the auspices of the Speech Communication Department, the student is afforded the opportunity to gain hands-on experience through current internships in radio, television, and film, provided by industry, government, business, public, and commercial telecommunications centers. The student may begin this program upon the completion of 6 hours in broadcasting-telecommunications courses at MSCD. Students should contact the adviser in broadcasting for details relative to eligibility and placement in the telecommunications internships. Telecommunications internships are offered every semester during each of the modules as well as on a full-semester basis.

INSTITUTE FOR INTERNATIONAL AND INTERCULTURAL EDUCATION

MSCD provides assistance to visiting faculty and international students. Important counseling is offered on visas, school transfers, work permission, housing, banking, and cultural and academic adaptation. The office also provides assistance to students who wish to arrange individualized study-abroad opportunities. The institute organizes numerous conferences and lectures on international issues throughout the year.

The institute also provides information on a cross-disciplinary individualized degree program and minor in international studies, international courses offered by various departments, and study-abroad courses. For information, contact the director of International and Intercultural Education at (303) 556-4004.

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, which study the diversity of women's lives and experiences in the U.S. and elsewhere. Students may elect to minor in women's studies or may choose an individualized degree program or minor. Several women's studies courses are offered for General Studies course credit or in fulfillment of the Multicultural graduation requirement. Students seeking licensure as secondary education teachers of 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, valuing a diverse curriculum, fosters the inclusion of material on all women, men of color, and ethnic minorities in courses throughout the college. It 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 female 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 Women's Action Guide and The Scholarship Search and a small multimedia library containing books, periodicals, manuscripts, videotapes and audio tapes, and newspaper files focusing 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 inter-disciplinary 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 women's organizations in education, business, government, and the community, for example, the Colorado Women's Agenda, and the Colorado Coalition for Women's History. Finally, to encourage and recognize excellence, the institute sponsors Outstanding Women Awards annually in the spring.

Women's Studies

Individualized Degree Program

Through the Office of Adult Learning Services, students may construct an individualized interdisciplinary major combining work in women's studies with work in other disciplines. Students should consult the director of the Institute of Women's Studies and Services and the director of Adult Learning Services to initiate planning. The women's studies individualized degree program is appropriate for any student, particularly those who plan to work specifically with female populations. Faculty strongly recommend a cooperative education internship.

A women's studies degree can 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 may be found in managing women's resource centers, rape crisis programs, and battered women's shelters. Students might also work in community counseling and consulting or develop workshops or special programming for women in business and industry. Graduates are also employed in banking and as executives in professional associations. 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.

Minor

Also interdisciplinary, the women's studies minor uses faculty expertise from many different departments. Faculty strongly recommends a cooperative education internship. The objectives of both the individualized major and minor include heightened awareness for women themselves; review of the cultural patterns that define women; 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.

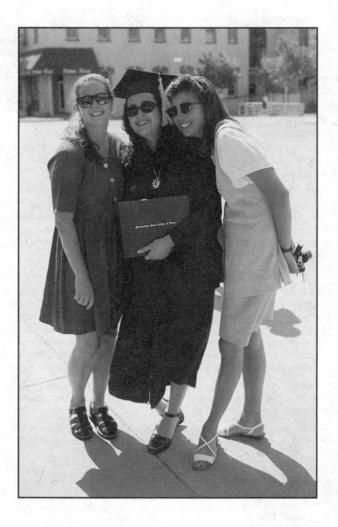
The courses are appropriate for students in education, guidance and counseling, law enforcement, human services, business management, advertising, public relations, communication, liberal arts, and the behavioral and social sciences.

Men are welcome and encouraged to study the scholarship that focuses on women. They may find from such study a conceptual framework that will enable them to better understand, appreciate, work, and live with women.

Requi										ırs
WMS	1001	Introduction: Woman in Transition	 		 	 . ,	 			 . 3
WMS	1650	Women in United States History	 		 	 	 			 . 3
WMS	3310	Women and the Law	 		 	 	 	 		 . 3
WMS	3510	Feminist Theory	 		 	 	 			 . 3
WMS	4750	Senior Seminar	 		 	 	 		* 3	 . 3
Electiv	es	**********************************	 	0.00	 	 	 	 		 . 9
Total.			 		 	 	 			 24

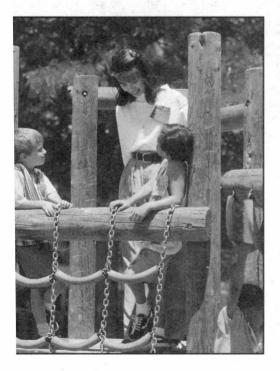
ELECTIVES

In addition to the core courses, 9 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, current issues, and cluster courses (WMS 3420, WMS 3440, WMS 3450, WMS 3460, WMS 3670, and WMS 4250); in addition, students should check the current *Class Schedule* for other relevant offerings. Appropriate electives are often listed in other departments and cross-listed with women's studies. For example, students may take WMS 1650 (HIS 1650) for either women's studies credit or for credit in history. Similar offerings are available in humanities, fine arts, and social and behavioral sciences. Students should check the *Class Schedule* each semester for appropriate cross-listed courses. 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.



The School of Professional Studies

provides students
with the knowledge, skill,
and performance competencies
needed to successfully
enter a chosen profession.







School of Professional Studies

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 12 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.

AEROSPACE SCIENCE DEPARTMENT

Colorado is one of the nation's important aerospace centers. Military installations, major aerospace industries, increased interest in private and corporate flying, and the airlines that serve Denver provide many employment opportunities. The local Federal Aviation Administration (FAA) and other government offices are excellent sources of information. Because of this proximity, students have the opportunity to visit these facilities and to take courses that are taught by personnel from the various organizations. The bachelor degree programs described below have been carefully planned to meet the needs of the student and the industry. All of the technical courses have been developed in cooperation with the FAA and prospective employers. Students who have completed these courses are eligible to take a variety of FAA examinations leading to certification.

The aviation management degree program prepares graduates to enter administrative positions within the various segments of the aviation industry. The program is accredited by the Council of Aviation Accreditation.

Airframe and powerplant (A&P) courses are not offered by MSCD. However, students holding a valid FAA airframe and powerplant certificate from a recognized Part 147 school may apply for 25 hours of credit toward a bachelor of science degree, provided that certain validation papers are presented with the application and a comprehensive exam is passed.

The department includes the World Indoor Airport (WIA), a unique flight simulation laboratory. The WIA is an integrated flight and air traffic control simulator lab with Fixed Base Operator and Flight Service Station services available. A Crew Resource Management lab and student computer tutorial lab make up the other components of the WIA.

Bachelor of Science in Aerospace Science Programs

The Aerospace Science Department offers baccalaureate degree programs with majors in the following areas:

Aviation Management (AMG)

Airway Science Management Emphasis (AV2)

Airway Science Maintenance Management Emphasis (AV4)

Aviation Technology (ATV)

Air Carrier/General Aviation Emphasis (AT1)

Aircraft Systems Management Emphasis (AT2)

Minors

Airframe and Powerplant Mechanics (APL)

Aviation Management (AMG)

Private Pilot (PRP) Aviation Technology (ATV)

These programs combine a thorough, practical, and technical training background with a general college education to prepare the graduate for a wide variety of careers in the aerospace industry. These four-year bachelor degree programs have been developed in the two-plus-two concept (a bachelor of science degree program built upon an associate of applied science two-year degree). This concept makes it easy for a community/junior college graduate in an aerospace program to transfer to MSCD and earn a bachelor of science degree in the college's aviation program. In order to be awarded the bachelor of science degree, the student must meet the college's general requirements for the bachelor's degree listed in this *Catalog* under Requirements for All Bachelor's Degrees.

FAA-Approved Ground School

MSCD's Aerospace Science Department is a fully certified and FAA-approved ground school for the private, instrument, commercial and flight and ground instructor FAA certificates and ratings. Veterans Administration flight students should see the Aerospace Science Department chair for information on approved flight training programs.

Flight Courses

Flight training is arranged by the student. Students must receive permission from the Aerospace Science Department before enrolling in flight courses. The cost of flight training is in addition to regular tuition and college services fees. This cost varies depending upon how frequently the student is able to fly during the semester and how much time is required to become proficient. The college instructor helps the student achieve an understanding of the relationship of flight theory to flight practice in order to acquire the knowledge required to meet FAA certification standards.

Students receiving Financial Aid assistance who are taking flight training for credit must make arrangements with the flight training schools contracted by The Metropolitan State College of Denver. Students not receiving Financial Aid assistance can obtain their FAA flight certificates from any approved FAA training program and submit the certificates in order to graduate.

Because MSCD does not currently have contracts with VA-approved flight schools, students receiving VA benefits cannot receive any academic credit for the flight training courses.

Credit by Examination Procedures

The basic provision for obtaining credit-by-examination (a maximum of 30 semester hours of credit) is outlined in this *Catalog* under Academic Information. The following procedures are established by the Aerospace Science Department to implement this provision:

- Students entering MSCD for the first time must apply for credit by examination during the first three weeks of the first semester. All examinations must be completed within the first semester.
- Students will not be approved to take an examination for a course with a lower number than any
 course they have taken previously.
- Students who are registered for but have not completed a higher-numbered course must complete
 the examination for the lower-numbered course within the first three weeks of the semester.
- Examinations will not be graded during the summer session.
- Courses authorized for credit by examination and the appropriate FAA license or rating follow:

	Certificate	Semester	
e	Title	Required Hours	;
1100	Aviation Fundamentals	Private	,
1800	Commercial/Instrument Ground	Commercial/Instrument 6	į
3000	Aircraft Systems and Propulsion	Flight Engineer	į
3530	Aerodynamics	Flight Engineer	'n
4040	Aircraft Performance	Flight Engineer	
4500	Flight Multi-Engine	Multi-Engine	
4510	Flight Instructor	Flight Instructor	
4520	Flight Instructor-Instrument	Flight Instructor	
4530	Flight Instructor-Multi-Engine	Flight Instructor Multi	
4550	Flight Helicopter	Helicopter	
4570	Airline Transport Pilot	ATP Rating	
4580	Turbojet Flight Engineer	Flight Engineer4	
	1800 3000 3530 4040 4500 4510 4520 4530 4550 4570	Title 1100 Aviation Fundamentals 1800 Commercial/Instrument Ground 3000 Aircraft Systems and Propulsion 3530 Aerodynamics 4040 Aircraft Performance 4500 Flight Multi-Engine 4510 Flight Instructor 4520 Flight Instructor-Instrument 4530 Flight Instructor-Multi-Engine 4550 Flight Helicopter 4570 Airline Transport Pilot	Re Title Required Hours 1100 Aviation Fundamentals Private 6 1800 Commercial/Instrument Ground Commercial/Instrument 6 3000 Aircraft Systems and Propulsion Flight Engineer. 3 3530 Aerodynamics Flight Engineer. 3 4040 Aircraft Performance Flight Engineer. 3 4500 Flight Multi-Engine Multi-Engine 1 4510 Flight Instructor 1 4520 Flight Instructor-Instrument Flight Instructor 1 4530 Flight Instructor-Multi-Engine Flight Instructor Multi 1 4550 Flight Helicopter Helicopter. 1 4570 Airline Transport Pilot ATP Rating 1

BACHELOR OF SCIENCE DEGREE IN AEROSPACE SCIENCE PROGRAMS

Students seeking a bachelor of science degree with a major in aerospace science have four options, two in aviation management (AMG) and two in aviation technology (ATV). All must complete the 34 hours of General Studies specified by the Aerospace Science Department. *The Aerospace Science Department Handbook*, available in the Auraria Book Center, lists the required General Studies courses and a suggested course sequence for each major. The program requirements for each major follow:

	Semester Hours
General Studies	34
Aviation Management (AMG)	
Airway Science Management Emphasis (AV2)	
Airway Science Maintenance Management Emphasis (AV-	4)
(includes 25 semester hours for A&P certificate)	
Aviation Technology (ATV)	
Air Carrier/General Aviation Emphasis (AT1)*	
(includes non-AES minor or 18 hours of AES approved ele	ectives)
Aircraft Systems Management Emphasis (AT2)**	
*ATI majors must have an FAA commercial pilot certificate with ground instructor certificate or certified flight instructor certifica **AT2 majors must have an FAA commercial pilot certificate wit FAA certified flight instructor and instrument flight instructor of degree	te to receive the bachelor of science degree. h instrument and multi-engine ratings and the

Aviation Management (AMG) Major for Bachelor of Science

AIRWAY SCIENCE MANAGEMENT EMPHASIS (AV2)*

*Council on Aviation Accreditation Approved Emphasis

Required		mester Hours
AES 1	00 Aviation Fundamentals	6
AES 3	20 Aviation Law and Risk Management	3
AES 3	30 Airline Management	3
AES 3	40 Airline Planning	
AES 3	50 Human Factors and Physiology of Flight	3
AES 4	00 Airport Planning	3
AES 4	10 Airport Management	3
AES 4	30 FBO and Aircraft Marketing	3
AES 4	40 Air Cargo	3
AES 4	70 Aviation Safety Program Management	3
AES 4	10 Aviation Management Problems and Job Targeting	3
COM 4	90 Senior Seminar in Technical Communications	3
Subtotal		39
Plus a m	nimum of 12 semester hours selected from the following:	
AES 2	00 Fundamentals of Air Traffic Control	3
AES 2	20 Flight Dispatcher/Load Planning	3
AES 3	70 Aircraft Accident Investigation	3
AES 3	80 Cooperative Education	6
AES A	pproved Upper-Division Elective	3
Subtotal		12
General S	udies for all AES Majors	34
Addition	I Required Courses (6 hours minimum)	
PSY 1	01 Introduction to Psychology	3
MTH 1	10 Introduction to Statistics	4
-or-		
MTH 1	20 Calculus for the Management and Social Sciences	3
-and-		
COM 2	10 Introduction to Technical Writing	
-or-		
	00 Business and Professional Speaking	
Subtotal.		9–10

	Manag	gement		
	MGT	3000	Principles of Management	
	MGT	3530	Human Resource Management	
	MGT	4000	Management Decision Analysis	
	MGT	4530	Organizational Behavior	
	MGT		Labor/Employee Relations	
			(3000/4000-level)	
	and the second	uter Sci		
	CMS		Principles of Information Systems	
	CMS		Micro Based Software	
			d Elective (CMS 2110, CMS 3060, CMS 3230)	
0 8			equired	
Avi	ation	Mana	gement (AMG)	
Ma	ior fo	r Bacl	helor of Science	
			MAINTENANCE MANAGEMENT EMPHASIS (A	V4)*
AIK				(4)
			proved FAA airway science emphasis.	
		red Cou		Semester Hours
			Powerplant Certificate	
	AES AES	1100 2150	Aviation Fundamentals	
	AES	3220	Aviation Law and Risk Management	
	AES	4130	Flight Engineer Duties and Responsibilities	
	AES	4140	DC-10 Systems.	
	AES	4150	Transport Category Aircraft Systems	
	AES	4870	Aviation Safety Program Management	
	AES	4910	Aviation Management Problems and Job Targeting	
	COM		Senior Seminar in Technical Communications	
	Subtote	al		
	Plus a	minimu	um of 6 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	
	Subtoto	al		
	Genera	1 Studie	s for All AES Majors	
	Additi	onal Re	quired Course (8 hours minimum)	
	CHE	1100	Principles of Chemistry	
	MTH	1210	Introduction to Statistics	
	-0			
			Calculus for the Management and Social Sciences	
	Subtoto	ıl		
	Manag	gement		
	MGT	3000	Principles of Management	
	MGT	3530	Human Resource Management	
	MGT	4000	Management Decision Analysis	
	MGT	4530	Organizational Behavior	
	MGT		Labor/Employee Relations	
	-0:		(2000/4000 1 1)	
			(3000/4000-level)	
		ıl		
		iter Sci		_
	CMS	2010	Principles of Information Systems	
	CMS	3270	Micro Based Software	
			d Elective (CMS 2110, CMS 3060, or CMS 3230)	
			pauired	

126 SCHOOL OF PROFESSIONAL STUDIES

Aviation Technology (ATV)

Major for Bachelor of Science

AIR CARRIER/GENERAL AVIATION EMPHASIS (AT1)

Requi	red Cou	irses	Semester Hours
AES	1100	Aviation Fundamentals	6
AES	1400	Aviation Weather	3
AES	1710	Single Engine Flight Simulation I	
-0	r–		
AES	1760	Single Engine Flight Simulation II	3
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	Multi Engine Flight Simulation I	
-0			
AES	4710	Turbo Prop Flight Simulation	3
AES	3850	Human Factors and Physiology of Flight	3
AES	4040	Aircraft Performance	
AES	4370	Advanced Navigation Systems	
AES	4860	Aviation Safety	
AES	4910	Aviation Management Problems and Job Targeting	
COM	4790	Senior Seminar in Technical Communications	
COM	4770	Advanced Ground Instructor Certificate	
		Professional Pilot Documentation	
Subtat	al		
		um of 18 semester hours selected from the following:	
MTH	1320	Calculus for the Management and Social Sciences	3
AES	2200	Fundamentals of Air Traffic Control	
AES	2220	Flight Dispatcher/Load Planning.	
AES	2330	Precision Flight Team	
AES	3220	Aviation Law and Risk Management	
AES	3230	Airline Management	
AES	3240	Airline Planning	
AES	3550	FAA Instructor Certification—Ground	
AES	3870	Aircraft Accident Investigation	
AES	3980	Cooperative Education	
AES	4130	Flight Engineer Duties and Responsibilities	
AES	4140	DC-10 Systems.	
AES		Approved upper-division elective	
CMS	2010*		
CMS	3270	Micro Based Software	3
Subtot	al		18
*Requi	ired if no	o computer courses are included in the program (or if computer proficien	icy has not been
demon	strated t	to the CMS department).	
Genera	al Studie	es for All AES Majors	34
Minor	or Appr	roved Electives from outside Aerospace Science	
		equired	
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Aviation Technology (ATV) Major for Bachelor of Science

AIRCRAFT SYSTEMS MANAGEMENT EMPHASIS (AT2)* Required Courses Semester Hours AES 1100 AFS 1400 AES 1710 AES 1760 AES 1800 AES 2150 AES 2200 AES 2710 AES 3000 AFS 3220 AES 3460 AFS 3530 Aerodynamics 3 AES 4040 4370 AES AES 4860 AES 4910 AFS 3710 -or-AES 4710 COM 4790 Additional Required Courses MTH 1120 1210 MTH 1320 1001 PSY Management MGT 3000 Computer Science CMS *This is an approved FAA airway science emphasis.

Minors

Designed to afford majors in other disciplines the opportunity to develop an understanding of the aerospace world. AES majors may not elect the AMG or ATV minors. Exception: AT1 majors may minor in Airframe and Powerplant Mechanics (APL).

128 SCHOOL OF PROFESSIONAL STUDIES

Rean	ired Co	agement Minor (AMG)	our
AES	1100		
AES	3220		
Subto	tal		
		s 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	FBO And Aircraft Marketing	
AES	4240	Air Cargo	
AES	4870	Aviation Safety Program Management	
AES	4910		
		Aviation Management Problems/300 Targeting.	
			2
irfram	e and	Powerplant Mechanics Minor (APL)	
	ired Co		our
Comp	letion of	f an FAA-approved Part 147 Airframe and Powerplant program with appropriate	
		hours awarded	2:
Plus:			
AES	4230	FBO and Aircraft Marketing	
AES	4870		
		Transcordance Transcordance	
rivate l	Pilot N	Minor (PRP)**	
Requi	ired Co	urses Semester H	
AES	1100	Aviation Fundamentals	(
AES	1400	Aviation Weather	
AES	1710	Single Engine Flight Simulation I	
Privat	e Pilot I	Documentation	
Privat AES	e Pilot I 2710	Documentation Instrument Flight Simulation I	(
			!
AES AES	2710 3850	Instrument Flight Simulation I	!
AES AES Plus o	2710 3850 one of th	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses:	
AES AES	2710 3850	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion.	
AES Plus o AES AES	2710 3850 one of th 3000 4040	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance	
AES Plus of AES AES Total	2710 3850 one of th 3000 4040	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance	
AES Plus of AES AES AES Total **All	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate.	
AES Plus of AES AES Total **All	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance	
AES AES Plus of AES AES Total **All	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. anology Minor (ATV)*	2
AES AES Plus of AES AES Total **All	2710 3850 one of th 3000 4040 private	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H	2
AES Plus of AES AES AES Total **All viation Requi	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. anology Minor (ATV)*	(our
AES AES Plus of AES AES Total **All viation Requi	2710 3850 one of th 3000 4040 private p ired Con 1100	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Aviation Fundamentals Aviation Weather	(our
AES AES AES AES Total **All viation Requi AES AES	2710 3850 one of th 3000 4040 private p 1 Tech 1100 1400	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Aviation Fundamentals	2
AES AES Plus of AES AES Total **All viation Requi AES AES AES AES	2710 3850 one of th 3000 4040 private p 1 Tech 1100 1400 1800	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground	(our
AES AES Plus of AES AES Total **All viation Requi AES AES AES AES	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground Professional Pilot Documentation*	2
AES AES Plus of AES AES Total **All viation Requi AES AES AES AES AES	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground. Professional Pilot Documentation* Aircraft Systems and Propulsion.	
AES AES Plus of AES AES Total **All viation Requi AES AES AES AES AES AES	2710 3850 one of th 3000 4040 private p 1 Tech 1100 1400 1800 1970 3000 3460	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. unology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground. Professional Pilot Documentation* Aircraft Systems and Propulsion. Weather for Aircrews	2
AES AES Plus of AES AES Total **All viation Requi AES	2710 3850 one of th 3000 4040 private j Tech ired Con 1400 1800 1970 3000 3460 3850	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground. Professional Pilot Documentation* Aircraft Systems and Propulsion. Weather for Aircrews Human Factors and Physiology of Flight Aviation Safety (or approved elective for AV4 majors)	
AES AES Plus of AES AES Total **All viation Requi AES	2710 3850 one of th 3000 4040 	Instrument Flight Simulation I Human Factors and Physiology of Flight he two following courses: Aircraft Systems and Propulsion. Aircraft Performance pilot minors must possess at least an FAA private pilot certificate. Inology Minor (ATV)* urses Semester H Aviation Fundamentals. Aviation Weather Instrument/Commercial Ground Professional Pilot Documentation* Aircraft Systems and Propulsion. Weather for Aircrews. Human Factors and Physiology of Flight Aviation Safety (or approved elective for AV4 majors)	

Credit For Airframe and Powerplant Certificate

Students seeking credit for their A&P certificate must provide a copy of their certificate, a copy of the certificate of completion from the school where it was obtained, and beginning and ending dates of A&P school attendance. Students must also take three pass/fail examinations through the Aerospace Science Department.

There will be no extra tuition charge for the 25 credits, which can be applied to a student's transcript.

Credit is not automatically given for the A&P certificate. Students will be allowed to test as follows:

- General test—5 credit hours—pass/fail (Students can proceed to either of the next two examinations only if the general test is passed.)
- Airframe—10 credit hours
- Powerplant-10 credit hours

The maximum amount of credits that can be earned is 25. Credit will be given individually for examinations two and three. If a student fails either the airframe examination or the powerplant examination, the department will determine which additional courses should be taken, and a maximum of 15 credits will be applied toward the major degree.

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. Increasingly, potential employers demand applicants who have had professional education. There is considerable interest in the criminal justice system to increase professionalism through education. The present curriculum not only provides a solid foundation in police-related areas, but also prepares students who are interested in further study in the areas of probation and parole, corrections, juvenile agency work, criminal justice administration, and private/corporate security. Course offerings within these professional fields are related to the human services program, public administration, urban studies, and commercial enterprises.

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 emphasizes subjects of an advanced, specialized, and administrative nature in the second two years (upper-division). The curriculum is structured to facilitate 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 general education requirements at any accredited Colorado community college, MSCD will consider the student's General Studies requirements completed.

A minor in business management, political science, psychology, sociology, or urban studies is strongly recommended, but others are accepted. An individualized degree minor may also be designed to meet the student's area of interest.

Students must meet the college's requirements for the bachelor's degree, including General Studies, and should consult with a faculty adviser regarding General Studies courses, the selection of a criminal justice area of emphasis, and the minor.

AREAS OF STUDY

The Criminal Justice and Criminology Department offers a bachelor of science degree with a choice of five areas of emphasis. These areas of emphasis recognize growing specialization within the criminal justice system and the expanding information base in the fields of law enforcement, corrections, youth advocacy, criminal justice administration, and corporate security. The areas also acknowledge the educational and professional needs of the criminal justice and criminology student by providing common learning experiences through core courses required for all areas of emphasis in criminal justice and criminology.

130 SCHOOL OF PROFESSIONAL STUDIES

Criminal Justice and Criminology Major for Bachelor of Science

CRIMINAL JUSTICE CORE

Requi	ired Cou	urses for All Areas of Emphasis	S	en	ne	ste	r	H	our	S
CJC	1010	Introduction to the Criminal Justice System								3
CJC	1100	Evolutionary Legal Concepts in Criminal Justice								3
CJC	2100	Substantive Criminal Law								3
CJC	4650	Ethics for the Criminal Justice Professional								3
Total .						Ċ.			. 1	2

In all areas of emphasis, students must complete a minimum of 18 upper-division semester hours.

Area of Emphasis I: Law Enforcement/Public Safety

This emphasis is designed for those students who seek academic preparation for careers within law enforcement agencies at the local, state, or national level.

Requi	red Cou	urses in Addition to Core	Semester Hours
CJC	2120	Evidence and Courtroom Procedures	3
CJC	2140	Criminal Procedure	3
CJC	3120	Constitutional Law	3
Total.			9
Plus 1	8 hours	selected from the following:	
CJC	2150	Municipal Law	3
CJC	2200	Law Enforcement Operations	3
CJC	3140	Juvenile Law	3
CJC	3200	Criminal Justice Administrative Behavior	3
CJC	3350	Seminar in Delinquency Causation, Prevention and Control	3
CJC	3400	Criminal Behavior and Criminal Careers	3
CJC	3410	Criminal Justice and the Social Structure	3
CJC	3500	Criminal Investigation	3
CJC	3700	Civil Law for Criminal Justice Administration	3
CJC	4400	Criminal Justice Planning, Policy Analysis, Evaluation and Budgetin	g Systems 3
CJC	4410	Special Topics in Law Enforcement	3
Total.			18

Area of Emphasis II: Corrections, Probation and Parole Administration

Required Courses in Addition to Core

This emphasis is designed for those students seeking academic preparation for careers within the adult corrections systems at the community or institutional level.

Semester Hours

requi	ii cu Coi	ises in Addition to Core
CJC	2140	Criminal Procedure3
CJC	3120	Constitutional Law
CJC	3280	Classification and Treatment of the Offender
Total .		9
Plus a	minim	um of 20 hours from the following:
CJC	2120	Evidence and Courtroom Procedure
CJC	3140	Juvenile Law
CJC	3200	Criminal Justice Administrative Behavior
CJC	3290	Probation and Parole
CJC	3340	Counseling Skills for Corrections Personnel
CJC	3400	Criminal Behavior and Criminal Careers
CJC	4300	Penology
CJC	4310	Correctional Law
CJC	4400	Criminal Justice Planning, Policy Analysis, Evaluation and Budgeting Systems 3
CJC	4420	Practicum in Corrections
CJC	4620	Special Topics in Corrections Administration
Total .		

Area of Emphasis III: Youth Advocacy/Delinquency Control

This emphasis is designed for those who wish to prepare and enhance career skills for specialization in youth advocacy and delinquency control. Students transferring an associate degree from a criminal justice program are encouraged, but not required, to complete a minor.

Requi	red Cou	rses in Addition to Core Semester Hours
CJC	3120	Constitutional Law
CJC	3140	Juvenile Law
CJC	3350	Seminar in Delinquency Causation, Prevention and Control
CJC	3400	Criminal Behavior and Criminal Careers
CJC	3450	Behavior Development and Treatment Plans
CJC	4660	Youth Advocacy Initiatives1–15
PSY	3250	Child Psychology
PSY	3260	Psychology of Adolescence
Total .		

Note: PSY 3250 and 3260 have prerequisites.

Area of Emphasis IV: Criminal Justice Administration and Management

This emphasis is designed to enhance the career skills of students preparing for specialization in criminal justice management and administration. Students transferring an associate degree from a criminal justice program are encouraged, but not required, to complete a minor.

Requi	ired Co	urses in Addition to Core Semester Hours
CJC	3120	Constitutional Law
CJC	3200	Criminal Justice Administrative Behavior
CJC	3700	Civil Law for Criminal Justice Administration
CJC	4400	Criminal Justice Planning, Policy Analysis, Evaluation and Budgeting Systems 3
CJC	4670	Research Seminar in Criminal Justice Administration5
Total .		
Plus 1	2 hours	selected from the following:
CJC	3100	Logic and the Law
CJC	3140	Juvenile Law
CJC	3250	Criminal Justice Delivery of Services and Decision-Making
CJC	4100	Advanced Jurisprudence
CJC	4430	Comparative Criminal Justice
CJC	4610	Special Topics in Criminal Justice Administration
Total .		

Area of Emphasis V: Private Security Administration and Management

This area is designed for students seeking professional careers in the diverse areas of private or corporate security.

Requi	red Cou	urses in Addition to Core	Semester Hours
ACC	2010	Principles of Accounting I	3
CJC	2010	Introduction to Private Security	
CJC	2120	Evidence and Courtroom Procedures	3
CJC	2140	Criminal Procedure	3
CJC	3120	Constitutional Law	3
CJC	3200	Criminal Justice Administrative Behavior	3
CJC	3410	Criminal Justice and the Social Structure	3
CJC	3700	Civil Law for Criminal Justice Administration	3
CJC	3850	Corporate Security Management	3
CJC	4750	Crime Prevention and Loss Reduction	3
CMS	2010	Principles of Information Systems	3
Total.			33
Minor	in Cri	minal Justice and Criminology	
CJC	1010	Introduction to the Criminal Justice System	3
CJC	1100	Evolutionary Legal Concepts in Criminal Justice	3
CJC	4650	Ethics for the Criminal Justice Professional	3
CJC	Electiv	ves selected in consultation with and approved by the department advis	er,
	at leas	t 4 hours of which must be upper-division	9
Total.			18

132 SCHOOL OF PROFESSIONAL STUDIES

EDUCATION

The underlying theme of the teacher education program is The Teacher as a Decision Maker in Diverse Contexts. Students' programs include General Studies, majors and minors in academic disciplines, and teacher licensure coursework. All courses and field experiences expose students to a wide variety of content theories, models, and practices that will develop decision-making skills as teachers and enable teacher candidates to work with a wide range of students in a broad spectrum of settings. As they enter teaching, graduates will have the knowledge and skill to teach to state and national standards in the various content areas and to demonstrate professional standards for teachers. Coursework and experiences are guided by the following:

- The practices of effective, decision-making teachers are grounded in philosophical beliefs, research, and theory.
- Decision-making teachers must be lifelong learners who recognize the needs of a diverse and changing society.
- The integration and application of knowledge from general education, academic specialization, and professional studies contribute to the development of effective teachers.
- Effective teachers are best prepared through extensive participation in a variety of teaching models and in a range of clinical and field experiences.
- Decision-making teachers effectively use reflective and critical thinking to translate theory into practice.

The teacher education program is the professional education area of the Professional Education Unit (PEU), consisting of faculty in the Schools of Professional Studies; Letters, Arts and Sciences; and Business. The program is fully accredited by the National Council for the Accreditation of Teacher Education and the Colorado Department of Education.

The teacher education program prepares students to teach. Academic departments in the School of Letters, Arts and Sciences and in the School of Professional Studies prepare students with the content knowledge to teach. The Early Childhood and Elementary Education Department and the Secondary Education Department offer teacher education courses, clinical experiences, and student teaching. The Reading Department offers required professional courses in early childhood education, elementary education, and secondary education. The completion of a licensure program, in addition to the completion of a bachelor's degree in an approved major, prepares students to apply to the Colorado Department of Education for teacher licensure at designated grade levels.

The particular sequence of education courses to be taken is determined by the level at which a student wishes to teach. The education courses may be taken along with the bachelor's degree program or after the degree program has been completed. Licensure is granted by the Colorado Department of Education, based on recommendation by the director of the Office of Clinical Services, approval of appropriate documents, and payment of assessment fees. Students receive endorsements in the level and/or subject area in which they are qualified to teach. The teacher education program also provides outreach to in-service teachers, including first-year assistance, mentor training, and other summer workshops.

Note: Every degree-seeking student must meet all requirements of the bachelor's degree program, including an approved major, a minor (in most cases), and the college's General Studies program as outlined in this *Catalog* under the chosen major. There is a list of approved majors or subject area endorsements to choose from (see below). PLEASE CONSULT WITH A FACULTY ADVISER FOR GUIDANCE IN THE APPROPRIATE SELECTION OF A MAJOR, A MINOR, AND GENERAL STUDIES COURSES.

APPROVED MAJORS FOR EARLY CHILDHOOD AND ELEMENTARY EDUCATION

Anthropology

Behavioral Science

Journalism

Political Science Psychology

Art

Mathematics

Modern Languages

Sociology

Biology

(French, German, Spanish)

Spanish Speech Communication

Chemistry English History Music Education Philosophy

Human Development (transfer students)

SUBJECT AREA ENDORSEMENTS FOR SECONDARY EDUCATION

Physics

English

Modern Languages

Social Studies

Industrial Arts

(French, German, Spanish)

Spanish Speech

Mathematics Physical Education

Science

K-12 ENDORSEMENTS

Art

Music

Physical Education

RECOMMENDED MINORS FOR EARLY CHILDHOOD AND ELEMENTARY EDUCATION

Bilingual/Bicultural

Early Childhood Education

Special Education/Gifted Education

Parent Education

Reading

RECOMMENDED MINORS FOR SECONDARY EDUCATION

Readino

Special Education/Gifted Education

Any minor in a subject commonly taught in middle and high school.

Support for the teacher education area is provided by the following:

- The Office of Clinical Services serves to integrate the laboratory experiences in the professional
 education programs. Requests for observations, research projects and studies, and tutoring positions at the elementary, middle, and high school levels are coordinated through this office using
 diverse off-campus settings. The main function of the office is placement and monitoring of student teachers. Also, recommendations for licensure are made by the director of the office upon program completion.
- The Child Development Center is a preschool laboratory that serves as a training facility for students enrolled in early childhood and other educational programs. The center provides a setting for college students to observe and participate in an ongoing educational program for young children.
- Laboratory and other partner schools are a cooperative endeavor of MSCD and selected public schools with the purpose of working toward a mutually beneficial collaboration, or a simultaneous renewal of K-12 schools and higher education. This is accomplished by providing more effective education for the K-12 pupils and the students in the teacher education programs, providing professional development and collaborative opportunities for both faculties, and engaging in inquiry into the best instructional practices. MSCD has been an active participant in John Goodlad's National Network for Educational Renewal, and the Colorado Partnership for Educational Renewal, which promote teacher self-reflection, school renewal, and professional development.
- The Education Resource Center supports students and faculty in the teacher education programs with a state-of-the-art computer laboratory, audio-visual resources, and other materials for course-work and field experiences. The center is stocked with Pentium personal computers, state-of-the-art Macintosh computers, and a multimedia computer station. Teacher candidates can make use of resources and equipment in the center throughout their teacher preparation program and for one year after they complete the teacher licensure program at MSCD. The center is the site of guest lectures, workshops, seminars, and meetings within the PEU.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Students seeking to complete the teacher preparation program must move through four significant "gates" intended to monitor student progress: provisional admission; formal admission; eligibility for student teaching; and institutional recommendation for teacher licensure. Certain requirements connected with each of these gates are described below.

Students who wish to enter the teacher education program must apply for provisional admission for one semester. After one semester of enrollment in any education class, students must qualify for and receive formal admission and be issued a formal admission card. Requirements are established by The Metropolitan State College of Denver in keeping with guidelines provided by the Colorado Department of Education. Requirements are subject to modification, so students should consult with a faculty adviser to confirm the current requirements. It is recommended that students who want to teach at the secondary or K–12 education level decide on a major and take several courses in their major before entering the teacher education program. To study early childhood administration, students do not have to be admitted to the teacher education program or be degree-seeking.

Provisional Admission

A provisional admission card will be issued to all entering students in the appropriate education department office or in the initial education class in which they are enrolled. With provisional admission, students are assigned an education adviser to consult during the first semester and who will remain their adviser throughout the program. Also, during the first semester, students should begin to develop a program plan and begin their teacher candidate portfolio. Secondary and K–12 education students should also begin working with an adviser in their major area. Provisional admission is valid for one semester only. After provisional admission has expired, formal admission requirements must be met.

Formal Admission

By the end of their first semester in the professional teacher preparation sequence, students must meet the following requirements for formal admission to the program. Students may not take additional teacher education courses until they meet these requirements. All requirements for formal admission must be met before the first day of the second semester of professional education classes. Faculty advisers are available to provide additional explanation of requirements listed.

- Students must have a minimum grade point average (GPA) of 2.5 on their most recent 30 semester hours of coursework completed at a regionally accredited institution of higher education. Early childhood licensure candidates who have not accrued 30 hours of college credit must have a minimum of 12 semester hours of college work.
- Students must demonstrate competence in oral expression. Students seeking bachelor's degrees
 should present evidence that they passed a college-level public speaking course with a grade of
 "B" or above. Students who earn a "C" may take an oral examination. Students who have bachelor's degrees but did not complete a public speaking course with a grade of "B" or above may take
 an oral examination.
- Students must complete and verify 50 clock hours of successful experience working with children
 or youth of the age they intend to teach.
- Students must submit the application for admission to the teacher education program to the appropriate education department office with the appropriate advisers' authorizing signatures and copies of transcripts of all college work.
- · Students must show evidence of a negative tuberculosis test within the past year.
- Students must obtain a formal admission card from the appropriate education department office to
 present to all education instructors to verify that initial requirements have been met.
- · Students must take the PLACE basic skills test.
- Transfer students may request consideration of education courses less than 10 years old that are a close match to MSCD's professional courses. Students should see an education adviser to assess which courses taken previously may be applied to teacher licensure.

ELIGIBILITY FOR STUDENT TEACHING

Prior to applying to student teach, all teacher education students must pass the PLACE basic skills test. The test includes reading comprehension, mathematics, and a writing sample. Test registration materials for the PLACE, offered only three times a year in Colorado, are available from the teacher education department offices. Students must take the basic skills test during their first semester in a professional education class. Registration must be sent about six weeks prior to the exam. Notification of scores on the exam is received about six weeks after the exam.

Students must complete a formal application to the Office of Clinical Services no later than the following dates:

- For fall semester student teaching—the third Friday in February.
- · For spring semester student teaching—the third Friday in September.
- For summer semester student teaching BY SPECIAL ARRANGEMENT, the third Friday in February.

All students must:

- Successfully complete all other college programs and degree requirements.
- Successfully complete and document 200 hours of experience with youth of the age group the student is preparing to teach. This service may be with any youth group such as the Boy Scouts, Girl Scouts, sports teams, church groups, and education programs at partner schools. Experience may be paid or volunteer.
- Have a minimum GPA of 2.75 in all coursework.
- · Successfully complete all professional courses required for licensure with a grade of "C" or better.
- Have a physical examination report including tuberculosis clearance on file with the Student Health Services Office.
- Have approval of the appropriate screening committee, if applicable.
- Submit verification that the teacher candidate portfolio has been prepared and the program plan
 approved for student teaching by the student's education adviser.
- Pass the basic skills PLACE test.

In addition, secondary and K-12 students must:

- Have a minimum GPA of 2.75 for all courses required in the major and all courses in teacher education
- Complete all subject area courses in the student's teaching area required by the North Central Association of Colleges and Secondary Schools.
- Have complete evaluations from pre-student teaching field experiences.
- Have approval from a committee in the major in those departments in which a major/secondary education agreement is in place.

RECOMMENDATION FOR LICENSURE

To be recommended for licensure to the Colorado Department of Education, students must:

- Complete student teaching and seminar with a "satisfactory" review.
- Complete all requirements for a bachelor's degree in the student's major area.
- Complete all requirements in the professional education sequence.
- Provide verification from the college supervisor of student teaching that they have completed and
 presented their teacher candidate portfolio at one of the student teaching seminar sessions.
- Submit evaluations of the student teaching experience from the cooperating teacher and the college supervisor.
- Before teacher candidates apply to the Colorado Department of Education for licensure, they must have passed the last three of four PLACE assessments: Liberal Arts and Sciences, Professional Knowledge, and Content Area.

LICENSURE SEQUENCES

EARLY CHILDHOOD AND ELEMENTARY EDUCATION DEPARTMENT

Program revisions are under consideration to comply with new state standards. Check with the department for late updates. The Early Childhood and Elementary Education Department offers professional preparation for teaching and education-related careers. This department prepares students to apply to the Colorado Department of Education for provisional teacher licensure and endorsement to teach in public schools in Colorado at two levels: early childhood (preschool through third grade) and elementary (K–6th grade). Minors are available in early childhood education, special education/gifted education, bilingual/bicultural education with endorsement, and parent education. Courses and workshops are offered to meet Colorado Department of Education requirements for renewal of teacher licenses and Colorado Department of Human Services group leader and director qualifications. A program for licensure in K–6 physical education is also available.

Professional Early Childhood Education Licensure Sequence

Requi	Required Courses S					
EDU	2340*	Urban Early Childhood Education				
EDU	2350*	Urban Early Childhood Education Field Experience				
EDU	2360	Expressive Arts for the Young Child				
EDU	3350	Assessment and Measurement in the Early Childhood Classroom				
EDU	3370	Language Arts and Social Studies Curricula for Early Childhood Education3				
EDU	3640	Curriculum and Management: Pre-primary-64				
EDU	4310	Parents as Partners in Education				
EDU	4330	Science and Mathematics for the Young Child				
EDU	4370	Planning a Developmentally Appropriate Early Childhood Classroom				
EDU	4390	Student Teaching and Seminar: Early Childhood				
RDG	3120	Developing Print Literacy: Preschool–Third Grade4				
SED	3600	The Exceptional Learner in the Classroom				
Total.		42				

^{*}These two courses must be taken concurrently.

Highly recommended course:

EDT 3610 Introduction to Educational Technology

EARLY CHILDHOOD ADMINISTRATION

Students who wish to administer early childhood programs must meet the Colorado Department of Human Services qualifications by taking the early childhood minor plus additional courses specified by the Colorado Department of Human Services, as shown below. Students do not have to be admitted to the teacher licensure program to take this sequence of courses, nor do they have to be degree-seeking.

	red Co		
Early	Childho	od Education Minor (see page XXX)22-	25
		equired Courses for Administration	
EDU	3340	Administration of Early Childhood Programs	
EDU	4310	Parents as Partners in Education	
-0	or-		
SOC	1010	Introduction to Sociology	
HES	2040	Introduction to Nutrition	
PSY	1010	Introductory Psychology3	
PSY	1800	Developmental Educational Psychology (prerequisite to all 3000-	
		and 4000-level early childhood education courses)	
Total .			
		seeking only director qualifications may take only those courses required by the Colorado	
		Human Services. Colorado Department of Human Services regulations may be changed.	
Consu	lt with t	he Early Childhood/Elementary Education Department for additional information.	
Highly	y Recon	nmended Course:	
HPS	2060	Emergency Rescue/First Responder and CPR 3	

ELEMENTARY EDUCATION PROGRAM

Professional Elementary Education and Licensure Sequence

Requi	red Cou	rses Semester Hours	j
EDU	2120	Elementary Education in the United States	
HPS	2130	Activities and Health for the Elementary Child	,
EDU	2640	Urban and Multicultural Education	ĺ
RDG	3130	Teaching Reading in the Elementary School: K-6	
SED	3600	The Exceptional Learner in the Classroom	į
EDT	3610*	Introduction to Educational Technology	j
EDU	3640	Curriculum and Management: Pre-primary-64	
EDU	4100	Language Arts and Social Studies Curriculum: Pre-primary-6	,
EDU	4120	Science and Math Curriculum: Pre-primary-6	
EDU	4190	Student Teaching and Seminar: Elementary K-6)
EDU	XXX	Upper-division EDU Course (Expressive Arts)	į
Total		41_43	į

^{*}Elementary Education licensure students taking EDT 3610 must register for 2 or 3 credit hours. One credit hour is offered only for early childhood education licensure students. Three credit hours should be elected by licensure students who wish to pursue advanced content area or grade-level technology skills.

ENDORSEMENT IN BOTH EARLY CHILDHOOD AND ELEMENTARY EDUCATION

Students may receive endorsement in both early childhood and elementary education by fulfilling the requirements for the minor in early childhood education (see page 138) and the additional requirements as specified below:

Required Courses:	Semester Hours
Required Courses: Early Childhood Education Minor	
Additional Requirements:	
An acceptable major, General Studies coursework, and coursework in the sional sequence, which fulfills elementary licensure requirements.	
ENG 3460 Children's Literature	
RDG 3120 Developing Print Literacy: Preschool-Third Grade	
An additional 6 semester hours of student teaching at the early childhood	level 6
Total	35_38

MINORS

The minor that a teacher education student chooses fulfills the requirements for the bachelor's degree program. No minor is required as part of the teacher education program. However, the following minors are offered by the Early Childhood and Elementary Education Department: early childhood education, special education/gifted education, parent education, and bilingual/bicultural education. The Reading Department offers the reading minor. To satisfy the minor requirements for the bachelor's degree program, a student may choose one of these minors or one of the other minors described in this *Catalog*. Students are advised to take a minor that is also a teaching field. Secondary licensure students may pursue these two professional minors: special education/gifted education and reading.

Bilingual/Bicultural Education Minor

The teacher education program offers a minor in bilingual/bicultural education, an interdisciplinary program sponsored by the Chicano Studies, Early Childhood and Elementary Education, Modern Languages, and Reading Departments. The principal objective of the bilingual/bicultural minor is to prepare future teachers to conduct all phases of classroom instruction in a bilingual and bicultural setting. In the developmental sequence, the minor provides the potential teacher with a background of Mexican heritage and an understanding of present-day Hispanic/Chicano culture.

Proficiency in the Spanish language is required of all students before they complete the minor. This proficiency prepares the teacher to understand and further develop the native tongue of bilingual children while offering a second language to many other children. In addition, the minor provides the student with sufficient clinical and academic experiences and resources to develop, implement, and evaluate curricular methods, techniques, and materials in the bilingual/bicultural classroom. The practicum in bilingual/bicultural education is required.

138 SCHOOL OF PROFESSIONAL STUDIES

	Requir	red Cou	arses and Recommended Sequence	Semester Hours
	CHS	1020	History of the Chicano in the Southwest: Mexico and U.S. Periods	
	CHS	3300	Education of Chicano Children	3
	EDU	3510	Perspectives in Bilingual/Bicultural Education	
	EDU	4510	Development of Methods and Materials for the Bilingual/Bicultura	l Classroom 4
	EDU	4990*	Student Teaching and Seminar (Bilingual)	
	-0			A H W
	EDU		Practicum in Bilingual/Bicultural Education	
	RDG	3530	Techniques of Teaching Reading to Non-English Speakers	
	RDG	3580	Reading in the Bilingual/Bicultural Classroom	
	SPA	3100	Spanish Terminology for the Bilingual Classroom	
			lowing courses:	이 그 아이들의 경기
	SPA	3110	Advanced Conversation	
	SPA	3150	Spanish Phonetics: Theory and Practice	
	SPA	3220	Folklore and Culture of the Mexican Southwest	
				27-30
			bilingual endorsement. r students seeking minor only.	
	- Panel	1		
			EQUIREMENTS:	er a grillage . No extended
			ncy: Proficiency in oral and written Spanish is determined by	
			ng members of the Modern Languages, Chicano Studies, and I	
men	tary Ed	lucation	Departments. The four-skills exam is used as the proficiency	y measure. Students who
			tisfactory score on the proficiency examination are required t	
clas	ses to e	nable t	hem to pass the proficiency examination. The following cour	rses are designed to help
stud	ents me	eet the p	proficiency requirements before the completion of the bilingu	ıal/bicultural minor:
	SPA	1010	Elementary Spanish I	5
	SPA	1020	Elementary Spanish II	5
	SPA	2110	Intermediate Spanish	
	SPA	2120	Spanish Reading and Conversation	3
Ear	rly Ch	ildho	od Education Minor	
	Requir	red Cou	irses	Semester Hours
	EDU	2340*	Urban Early Childhood Education	3
	EDU	2350*	Urban Early Childhood Education Field Experience	2
	EDU	2360	Expressive Arts for the Young Child	2
	EDU	3350	Assessment and Measurement in the Early Childhood Classroom.	
	EDU	3370	Language Arts and Social Studies Curricula for Early Childhood E	
	EDU	4310	Parents as Partners in Education	
	EDU		*Planning a Developmentally Appropriate Early Childhood Classroo	
	EDU		* Teaching Practicum in Pre-primary Early Childhood Education	
			urses must be taken concurrently. ourses must be taken concurrently.	
	Note:	PSY 180	ourses must be taken concurrently. 10 Developmental Educational Psychology is a prerequisite to all 3	1000- and 4000-level
	early c	hildhoo	d education courses.	
	Highly	Recom	mended Course:	
	EDU		Cultural Influence on the Socialization of Children	4
Ada	litional	Dooni		
And	nccenta	ble mai	rements: for, General Studies coursework, and coursework in the elem	entery advection profes
			at fulfills elementary licensure requirements.	citaly education profes-
SIOH	RDG	3120	Developing Print Literacy: Preschool–Third Grade	A STATE OF
	ENG	3460	Children's Literature.	
			6 semester hours of student teaching at the early childhood level	
			sellester hours or student teaching at the early chitational tever	

Special Education/Gifted Education Minor

SED 3600 The Exceptional Learner in the Classroom

The minors in special education and gifted education are designed to prepare teachers, physical educators, counselors, and professionals to work with exceptional students in educational, therapeutic, and recreational settings. The minor may also lead to a graduate program in special education or gifted education. Students who pursue this area of study may choose to pursue the standard minor (which is 18 hours of credit), or MSCD/UCD composite program (which is 24 hours of credit from MSCD, plus an additional 18 hours of UCD graduate credit), which leads to Teacher I endorsement.

SPECIAL EDUCATION EMPHASIS

Choose one of the following programs:

- 1	∕18	v.	D

	SED	3000	The Exceptional Learner in the Classroom						
	PLUS a minimum of 15 hours from the following program:								
	SED	3380	Teaching Students with Learning and Behavior Disorders						
	SED	3400	Educational Exceptionality and Human Growth						
	SED	3410	Diagnosis and Evaluation of Exceptional Students						
	SED	3430	Field Experience in Special Education						
	SED	3440	Collaborative Practices in Special Education						
	SED	3490	Education of the Learning Disabled						
	SED	4200	Language Development and Learning Disabilities						
	SED	4250	Classroom Management for Exceptional Students						
	Total.								
MS	MSCD/UCD Teacher I								
	SED	3600	The Exceptional Learner in the Classroom						
	SED	3380	Teaching Students with Learning and Behavior Disorders						
	SED	3400	Educational Exceptionality and Human Growth						
	SED	3410	Diagnosis and Evaluation of Exceptional Students						
	SED	3440	Collaborative Practices in Special Education						
	SED	4250	Classroom Management for Exceptional Students						
	SED	4500	Special Education Student Teaching and Seminar						
	Total Hours Required								
	PLUS additional UCD courses								
Gifted Education Emphasis									
	SED	3600	The Exceptional Learner in the Classroom						
	Select one course (3 hours) from the special education curriculum plus the following sequence 3								
	ART	4390	Integrating the Arts for Gifted and Talented						

PARENT EDUCATION MINOR

EDU 3460

4420

EDU

EDII

EDU

Total

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 make the field of parent education more credible by providing 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. Other fields might also provide opportunities to use this background. Parent education happens in settings ranging from churches to industry and is not limited to educational settings in the usual sense.

140 SCHOOL OF PROFESSIONAL STUDIES

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, 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 adviser to ensure an appropriate field placement.

Requi	rses Semester Hours	
PAR	2050	Introduction to Parent Education
PSY	1800	Developmental Educational Psychology
-or-		
PSY	2210	Psychology of Human Development
-or-		
PSY	3250	Child Psychology
HSP	2040	Family Function, Dysfunction and Therapy
PSY	2240	Parenting Techniques
PAR	3070	Working with the Contemporary Family
HES	3070	Parental Health Care Issues
EDU	4070	Designing and Implementing Programs for Adult Learners
PAR	4890	Parent Education Field Placement
Total .		

Minimum hours required for the minor are 25–26 (depending on courses selected). If the parent education minor is combined with a major in the Education, Human Services, Nursing, or Psychology Departments, the combined total semester hours for the major and minor must be 60 hours. 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.

Note: For descriptions of other courses included in the minor, see appropriate department listings: EDU—Education; HES—Health Services; HSP—Human Services; NUR—Nursing; PSY—Psychology; SOC—Sociology; WMS—Women's Studies.

Parent Education Program

This program is being considered for conversion to a certificate program. Please check with the department or an adviser.

Prerequisites: A degree (B.A., B.S., M.A., M.S.) in a field such as child development, education, human services, nursing, psychology, or social welfare.

Requ	Semester Hours		
EDU	4070	Designing and Implementing Programs for Adult Learners	3
HES	3070	Parental Health Care Issues	
HSP	2040	Family Function, Dysfunction, and Therapy	
PAR	3070	Working with the Contemporary Family	
PAR	2050	Introduction to Parent Education	
PAR	4890	Parent Education Field Placement.	
PSY	2240	Parenting Techniques	
Total			
Sugge	ested Ele	ectives	
AAS	3550	The Black Family	3
CHS	2210	The Chicano Family	
HSP	1040	Applied Behavior Analysis	
HSP	2040	Family Function, Dysfunction, and Therapy	
PAR	4800	Special Topics in Parent Education.	
PSY	3260	Psychology of Adolescence	
SED	3440		
		Collaborative Practices in Special Education	
SOC	3410	The Family in Transition	
SWK	1040	Human Behavior and the Social Environment	
SWK	1050	Family Social Services	4
SWK	3010	Social Work Services for Children and Adolescents	
WMS	1001	Introduction: Woman in Transition	3

SECONDARY EDUCATION DEPARTMENT

LICENSURE IN SECONDARY AND K-12 EDUCATION

The Secondary Education Department offers professional preparation for teaching and educationrelated careers in collaboration with the Reading Department and various major departments. This department prepares students to apply to the Colorado Department of Education for provisional teacher licensure to teach in secondary schools (7–12 grades) with endorsements in:

English Modern Languages Social Studies
Industrial Arts (French, Spanish, German) Spanish
Mathematics Physical Education Science
Science

The Secondary Education Department also offers a K-12 professional teaching sequence in collaboration with three major departments. These K-12 sequences prepare students to apply for K-12 provisional licensure with endorsements in art, music, or physical education.

All secondary and K-12 students must have two advisers, one in secondary education and one in their major area. All but two of the 12 majors a secondary education student can choose from are found in this *Catalog* under the major department. Two of the majors, science and social studies, do not match a major found in this *Catalog*, so they are outlined in this section.

SECONDARY PROFESSIONAL EDUCATION SEQUENCE

An additional program in middle-level education is being proposed, as is a new secondary major in business. Check with the Secondary Education Department for further information. In addition to a major in one of the above areas, and a minor as required, students must complete the following professional course program:

Requi	ired Cours	es 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**	Secondary School Curriculum and Classroom Management				
EDS	3220**	Field Experience in Teaching, Materials Construction, and Classroom Management 3				
EDT	3610***	Introduction to Educational Technology				
RDG	3280	Teaching of Reading and Writing in the Content Area4				
SED	3600	The Exceptional Learner in the Classroom				
		(or physical education majors may take HPS 4620,				
		Adaptive Human Performance and Sports Activities)				
$\Rightarrow\Rightarrow$	$\Rightarrow\Rightarrow$	Methods of Teaching the Major				
Subto	tal					
Teach	ing Practi	ce				
EDS		Student Teaching and Seminar: Secondary 7–12				
		(available summer term only with special arrangements)				
Total						
		ses must be taken concurrently.				
		rses must be taken concurrently. Math teacher candidates must take MTH 3610 con-				
		OS 3210 and EDS 3220 during the semester before student teaching.				
***Secondary Education and K-12 licensure students taking EDT 3610 must register for 2 or 3 credit						
		t hour is offered only for early childhood education licensure students.				
		ts who are preparing for K-12 licenses or for two subject areas are allowed to take 6				
or 8 credit hours. K–12 licensure students take EDS 4290-8 and EDU 4190-8.						

RECOMMENDED SEQUENCE

The following course of study is suggested for those students in secondary education who have a bachelor's or higher degree and who are primarily completing licensure courses at MSCD. Completion of the program takes a minimum of three semesters.

Semes	ster I	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

Semes	ter I or	II (to be taken as offered, or as these courses fit into the student's schedule)
EDT	3610*	Introduction to Educational Technology
RDG	3280	Teaching of Reading and Writing in the Content Area
SED	3600	The Exceptional Learner in the Classroom
Semes	ter II	
EDS		Secondary School Curriculum and Classroom Management
EDS	3220**	Field Experience in Teaching, Materials Construction, and Classroom Management 3 Methods of Teaching the Major
0.03-7-06		e above listed courses are prerequisites for student teaching.
Semes	ter III	
EDS	4290	Student Teaching and Seminar: Secondary 7–12
hours.	One cre	ducation and K-12 licensure student taking EDT 3610 must register for 2 or 3 credit that the foliation of the foliation of the students of the carly childhood education licensure students. Three credit the elected by licensure students who wish to pursue advanced content area of grade-level als.
		r candidates must take MTH 3610 concurrently with EDS 3210 and EDS 3220 during the e student teaching.

SCIENCE AND SOCIAL STUDIES LICENSURE PROGRAMS

Science Licensure Program

The program includes a major in one area of science, an emphasis in a second area, and a sampling from additional areas of science and mathematics. The program satisfies both major and minor requirements, so no further minor is required.

Major

Secondary science licensure students must complete an academic major in one of the following areas:

Biology Earth—Atmospheric Science

Chemistry Physics

Please consult with the Secondary Education Department or your major department for a list of approved and/or required courses and for information about licensure in your major.

Science Areas of Emphasis

In addition to their major, students must complete one of the following teaching areas of emphasis:

Biolo	gy	Semester Hours	,
BIO	1080	General Introduction to Biology	
BIO	2100	General Botany	
BIO	2200	General Zoology5	
BIO	3550	Urban Ecology	
-0	or-		
BIO	3600	General Genetics	
Subtot	al		
Chen	nistry	Semester Hours	
(Stude	nts want	ing General Studies credit from CHE 1800 must take companion course CHE 1850.)	
CHE	1800	General Chemistry I	
CHE	1810	General Chemistry II	
CHE	1850	General Chemistry Lab	
CHE	3000	Analytical Chemistry	
CHE	3010	Analytical Chemistry Laboratory	
CHE	3100	Organic Chemistry I	
CHE	3120	Organic Chemistry Laboratory I	
Subtot	al		
Com	puter S	cience	
CSI	1300*	Introduction to Structured Programming4	
CSI	2300	Advanced Programming and Data Structures	
CSI	3300	Foundations of File Structures	
Plus 9	addition	al hours of CSI courses	
Subtot	al		
*Prere	equisites	for CSI 1300 are CSI 1010 and MTH 1110 or equivalents.	
F7 41	·		

Earth Science Semester Hours

AST	1040	Introduction to Astronomy	
GEG	1000	World Regional Geography	3
GEG	1230	Weather and Climate	3
GEG	1240	Landforms	3
GEL	1010	General Geology	
GEL	1030	Historical Geology	
Subto	tal		20
Math	hematic	s	Semester Hours
CSI	1300	Introduction to Structured Programming	
MTH	1410	Calculus I	
MTH	2410	Calculus II	
MTH	3100	Introduction to Mathematical Proofs	
MTH	3610	Methods of Teaching Mathematics	
Plus 3	3 additio	nal hours to be selected from:	
MTH		Abstract Algebra	3
MTH		Probability and Statistics	
MTH		History of Mathematics	
7.000	3650	Foundations of Geometry	
Phys			Semester Hours
PHY	2310	General Physics I	
PHY	2320	General Physics Laboratory I	
PHY	2330	General Physics II	
PHY	2340	General Physics Laboratory II	
FILL	2340	General Filysics Laboratory II	
Dlue 9	Addition	nal Hauss in Physics	0
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Social Studies Licensure Program

The program includes a major in one area of social science, a second area of emphasis, and a sampling from every social/behavioral science. The program meets both major and minor requirements; an additional minor is not required.

Major

Students must complete an academic major at MSCD in one of the following areas:

African American Studies	Chicano Studies	Political Science
Anthropology	Economics	Psychology
Behavioral Science	Geography	Sociology
	History	그렇게 된 그렇게 뭐하는 그 요?

The Licensure Program for Social Studies has changed dramatically. Please check with the Secondary Education Department for updated information and for a list of approved and/or required courses for licensure and with the major department for major requirements.

Social Studies Area of Emphasis

Students must also complete one of the following teaching areas of emphasis. History must be selected unless the academic major is history.

Histor	·v	Semester Hours
HIS	1010	Western Civilization to 1715
HIS	1020	Western Civilization since 1715
HIS	1210	American History to 1865
HIS	1220	American History since 1865
Non-V	Vestern	history
3 hour	s of add	itional upper-division history courses. (selected in consultation with the department)3
Subtot	al	
Africa	n Ame	rican Studies
AAS	1010	Introduction to African American Studies
AAS	2000	Social Movement and the Black Experience
6 addi	tional h	ours in African American Studies, 3 upper-division.
(sele	ected in	consultation with a faculty adviser; African American History recommended) 6
Subtot	al	
Anthr	opolog	
ANT	1010	Physical Anthropology and Prehistory
ANT	1310	Introduction to Cultural Anthropology
6 addi	tional u	pper-division hours in anthropology6
Chica	no Stud	lies
CHS	1000	Introduction to Chicano Studies
CHS	1010	History of Meso-America: Pre-Columbian and Colonial Periods
CHS	1020	History of the Chicano in the Southwest: Mexico and U.S. Periods
3 addi	tional u	pper-division hours in Chicano studies
Subtot	al	
Econo	mics	
ECO	2010	Principles of Economics (Macro)
ECO	2020	Principles of Economics (Micro)
12 add	litional	upper-division hours in economics

	Subtot	al	
	Geogr	aphy	
	GEG	1230	Weather and Climate
	GEG	1300	Introduction to Human Geography
	GEG	1400	World Resources
	3 addi	tional u	oper-division hours
	Politic	al Scien	nce
	PSC	1010	American National Government
	PSC	1020	Political Systems and Ideas.
	PSC	3000	American State and Local Government.
	PSC	3050	Political Theory
	Subtot		
	Psych		
	PSY	1001	Introductory Psychology
	PSY	3260	Psychology of Adolescence
			ours of electives, 3 upper-division.
			consultation with the department; PSY 2210 and 2410 suggested)
			12
	Sociol		£
	SOC	1010	Introduction to Sociology
	SOC	3600	Introduction to Sociology
		2000	burs of electives, 3 upper-division.
			outs of electives, 5 upper-division
Ge	neral R		
	HIS	4010	Methods of Teaching Social Science: Secondary School

Select one course from each of the following areas. A single course may be used for credit in two areas if content is appropriate; e.g., geography and international studies. Some courses may be satisfied in the academic major, area of emphasis, General Studies, or elective coursework.

African American Studies*	Economics	Political Science
Anthropology	Gender Studies	Psychology
Chicano Studies	Geography**	Sociology
	International Studies	

^{*}African American History or other course dealing with the African American experience in the United States.

ENGINEERING TECHNOLOGY DEPARTMENT

Civil Engineering Technology

The specialized fields within civil engineering technology include programs in civil engineering technology, drafting, and surveying. The surveying program is a separate, specialized four-year program. The individual curriculum requirements are listed separately.

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, design of wastewater collection and treatment facilities, design of air pollution control facilities, and design of solid and toxic waste-disposal facilities. The development of environmental impact studies and environmental impact reports is also included.

Students must meet the following curriculum requirements for the various degrees, minors, and areas of emphasis.

For every CEN and SUR course requiring prerequisites, a minimum grade of "C" is required for all of

^{**}GEG 1000, World Regional Geography, or GEG 1400, World Resources suggested. These credits can be taken as part of General Studies. GEG 1400 will fulfill the international studies requirement.

those prerequisite courses.

CIVIL ENGINEERING TECHNOLOGY MAJOR FOR BACHELOR OF SCIENCE

The four-year bachelor of science degree is awarded upon completion of the required courses and a environmental, structures, or surveying area of emphasis or an approved minor. This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

Requi	red Tec	chnical Studies	Semester Hours
CEN	1100	Civil Technology	
CEN	1200	Technical Drawing I	3
CEN	1210	Technical Drawing II	3
CEN	2100	Structural Drawing	4
CEN	2150	Mechanics I—Statics	3
CEN	3100	Construction Methods	3
CEN	3120	Engineering Economy	3
CEN	3130	Mechanics of Materials	
CEN	3140	Mechanics of Materials—Laboratory	1
CEN	3160	Mechanics II—Dynamics	
CEN	3170	Introduction to Structural Analysis	
CEN	3180	Fluid Mechanics I.	
CEN	3190	Fluid Mechanics II	
CEN	4130	Soils Mechanics	
CEN	4600	Senior Seminar	
COM	2610	Introduction to Technical Writing.	
CSI	1020	BASIC Computer Programming	
MET	3110	Thermodynamics I	
SUR	1510	Surveying I	
SUR	2520	Surveying II	
		per-division Technical Elective	
		- Cities of the common discourse and the cities of the cit	
CHE	1800	equirements General Chemistry I	4
ECO	2010		4
-0		Principles of Economics—Macro	
ECO	2020	Principles of Economics—Micro	2
MTH	1110	College Algebra	
MTH	1110	College Trigonometry.	4
MTH	1410	Calculus I	
MTH	2410		
		Calculus II	
PHY		and 2030 College Physics I/College Physics Laboratory I	
PHY	2210 -	and 2220 Conseal Physics I/Conseal Physics I showstown I	
PHY	2020 a	and 2320 General Physics I/General Physics Laboratory I	
-0	2020 8	and 2040 Conlege Physics II/Conlege Physics Laboratory II	
PHY	2330 a	and 2340 General Physics II/General Physics Laboratory II	5
SPE	1010	Fundamentals of Speech Communication	
		rundamentals of Speech Communication	
ironm	ental A	Area of Emphasis	
Requi	red Tec	chnical Studies	
CEN	3320	Environmental Impact Statements	3
CEN	3330	Environmental Technology Processes	3
CEN	4500	Water Supply and Treatment	
CEN	4510	Wastewater Treatment and Disposal	
MTR	1400	Introduction to Meteorology	
Appro	ved Upp	per-division Technical Elective	3

	Total .			 	 					18
Stru	ctures	Area	of Emphasis							
Stru			hnical Studies							
	CEN	4120	Concrete Design I		 0 0 1	an and	1020200	54 5145		3
	CEN	4140	Concrete Design II							
	CEN	3330	Environmental Technology Processes		 					3
	CEN	4400	Steel Design I							
	CEN	4410	Steel Design II							
			er-division Technical Elective							
Engi	noonin	a and	Land Surveying Area of Emphasis							
Eng			hnical Studies							
	SUR	2530	Route Surveying							4
	SUR	2620	Survey Drafting							
	SUR	3540	Boundary Law I							
	SUR	4530	Site Planning							
	SUR	4540	Boundary Law II							
			ctive							
		_	auve							
				 	 			, 10	<i>y</i>	20
Con			g and Mapping Area of Emphasis							
			nnical Studies							
	SUR	2620	Survey Drafting							
	SUR	2650	Photogrammetry I							
	SUR	3620	Cartographic Surveys							
	SUR	3660	Land Information Systems	 	 				٠.	3
	SUR	4530	Site Planning	 	 					3
	SUR	4740	Geodetic and Special Surveys	 	 					4
	Total.			 	 				. 1	19
MIN	OR IN	CIVIL 1	Engineering Technology							
	Requir	red Tech	nnical Studies							
	CEN	1100	Civil Technology	 	 					3
	CEN	1200	Technical Drawing I.							
	CEN	2150	Mechanics I—Statics	 	 					3
	CEN	3100	Construction Methods	 	 					3
	SUR	1510	Surveying I	 	 					4
	Approv	ed Low	er-division Technical Elective	 	 					3
			er-division Technical Elective							
MIN	OR IN	DDAFT	ING ENGINEERING TECHNOLOGY							
IVIIN			nnical Studies							
	CEN	1200	Technical Drawing I							2
	CEN	1210 2210	Technical Drawing II							
	CEN	3200	Architectural Drawing							
			er-division Technical Elective							
			er-division Technical Elective							
			er-division reclinical Elective							
	Lown.			 	 				(a)	40

The bachelor of science program 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 but is broad enough to prepare them 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 presidents 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).

Surveying and Mapping

For every CEN and SUR course requiring prerequisites, a minimum grade of "C" is required for all of

those prerequisite courses.

SURVEYING AND MAPPING MAJOR FOR BACHELOR OF SCIENCE

Requi	red Tec	hnical Studies	Semester Hours
CEN	1200	Technical Drawing I	
GEG	4840	Remote Sensing	
GEL	1010	General Geology	4
SUR	1510	Surveying I	
SUR	2520	Surveying II	4
SUR	2530	Route Surveying	4
SUR	2550	Surveying Computations	
SUR	2620	Survey Drafting	
SUR	2650	Photogrammetry I	
SUR	2710	Astronomy for Surveyors	
SUR	3540	Boundary Law I	
SUR	3620	Cartographic Surveys	
SUR	3660	Land Information Systems	
SUR	3760	Surveying Data Adjustment	
SUR	4480	Geodesy	
SUR	4530	Site Planning	
SUR	4540	Boundary Law II	
SUR	4650	Photogrammetry II	
SUR	4740	Geodetic and Special Surveys	
Subtot	al		
0.0000000000000000000000000000000000000		ourse Requirements	
COM	2610	Introduction to Technical Writing	2
ENG	1010	Freshman Composition: The Essay	
ENG	1020	Freshman Composition: Analysis, Research, and Documentation	
MGT	3000	Organizational Management	
MTH	1400	Pre-Calculus Mathematics	
PHY	2310	General Physics I	
PHY	2320	General Physics Laboratory I	
PHY	2330	General Physics II	
PHY	2340	General Physics Laboratory II	
SPE	1010	Fundamentals of Public Speaking	
		oral Electives	
		rs Electives	
Appro	ved Tec	hnical Electives	4
Requi	red Ma	th Minor	
MTH	1410	Calculus I	4
MTH	1510	Computer Programming: FORTRAN	4
MTH	2140	Matrix Algebra	
MTH	2410	Calculus II	
MTH	3210	Probability and Statistics	
Appro	ved Mat	th Elective (minimum 2 credit hours)	
		N	
Loiul .		***************************************	130

GENERAL STUDIES REQUIREMENTS

The Level I mathematics requirements do not apply to the surveying and mapping program because it includes a math minor and SUR 3760. At least one elective must be 3000- or 4000-level. At least two technical elective credits must be used to complete the math minor.

MINOR IN SURVEYING

Requi	red Tec	hnical Studies Semester Hours
SUR	1510	Surveying I
SUR	2520	Surveying II
SUR	2620	Survey Drafting
SUR	2650	Photogrammetry I
SUR	2710	Astronomy for Surveyors
SUR	3620	Cartographic Surveys
SUR	4650	Photogrammetry II

Electrical Engineering Technology

Graduates are employed in a variety of positions in the following functional areas:

Research and Development

Technical activities in research and development are primarily directed toward obtaining new information and new knowledge of the field. The engineering technologist is a member of the research team. Specific work may involve the development and construction of prototypes, test, and evaluation of equipment, or other activities necessary to render technical support to a research project.

Manufacturing

A graduate employed in a manufacturing facility might be involved in actual manufacturing, fabrication, test, prototype development, calibration, and quality control. In some cases, students may become involved in sales or management.

Services

Service engineering has become a field of its own. Activities in this area involve the use of computers, communications, instrumentation, new product development, and electrical and electronic systems.

Design

Some graduates design application-oriented electronic equipment and systems. The EET curriculum provides a foundation in mathematics and science, as well as a thorough treatment of the characteristics of electric circuits and electronic devices. In this four-year program, specialization may be achieved by selection of an area of emphasis in computers, communications (including satellite, fiber optics, microwave, and laser), control systems (including robotics), and power (including solar energy).

Electrical Engineering Technology Major for Bachelor of Science

Because this program emphasizes applications of theory, students are required to take concurrent laboratory courses. In the EET 1000 series of courses, students who drop or change to "No Credit" in the theory/laboratory course must make the same change in the companion laboratory/theory course. This program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

The bachelor of science degree is awarded upon completion of the courses listed below. (Students should contact the department for recent changes to this major.)

Requi	red Tec	hnical Courses Semester Hours
EET	1100	Circuits I
EET	1110	Circuits I Laboratory
EET	1120	Circuits II
EET	1130	Circuits II Laboratory
EET	2140	Electronics I
EET	2150	Electronics II
EET	2320	Digital Circuits I
EET	2340	Technical Programming Applications
EET	2350	Advanced Technical Programming
EET	3110	Circuit Analysis with Laplace4
EET	3120	Advanced Analog Electronics4
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
MET	3060	Statics and Dynamics
MET	3110	Thermodynamics
XXX	XXX	Upper-division EET Electives (MIS 4010 and MIS 4020 may be substituted) 6

	Subtote	al		63
			ourse Requirements	
	CHE	1800	General Chemistry I	4
	COM	2610	Introduction to Technical Writing	3
	ENG		Freshman Composition: The Essay	
	ENG		Freshman Composition: Analysis, Research and Documentation	
	MTH	1400	Pre-Calculus Math (MTH 1110 or MTH 1120 may be substituted)	4
	MTH	1410*		
	MTH	2410	Calculus II	
	PHY	2310*		
	PHY	2320*		
	PHY	2330*		
	PHY	2340*		
	SPE	1010*		
	XXX	XXX	Level II General Studies—Historical	
			Level II General Studies—Historical Level II General Studies—Arts and Letters.	
	XXX	XXX		
	XXX	XXX	Level II General Studies—Social Science	
			s count as General Studies courses. The Multicultural requirement of 3 cre	edits may be
	applied	to any	Level II category or taken as additional hours.	
ARE	AS OF	Емрна	SIS (CHOOSE ONE AREA ONLY)	
Con	nputer	S	C.	
	Requi	red Cou	urses Semo	ester Hours
	EET	4320	Digital Filters	3
	EET	4330	Data Communications	3
	EET	4340	Interface Techniques	
	EET	4370	Microcontrollers	
	XXX	XXX	Upper-division EET Electives	6
	Subtote	al		
Con	nmunio	cations		
	Requi	red Cou	ırses	
	EET	3630	Electromagnetic Fields	3
	EET	3640	Communications Laboratory	3
	EET	3670	Measurements for Communications Systems	3
	EET	4330	Data Communications	3
	EET	4620	Advanced Communication Systems	3
	EET	4640	Communication Circuit Design	3
	Subtote	al		
Con	trol Sy	stems		
	Requi	red Cou		
	EET	3420	Electric Power Distribution	3
	EET	3720	Control Systems Laboratory	1
	EET	3730	Process Control Systems	2
	EET	3740	Programmable Logic Controllers	2
	EET	4330	Data Communications	3
	EET	4340	Interface Techniques	3
	EET	4710	Digital Control Systems Design	4
	Subtote	al		18
Pow				
Pow	Jan			
	Requi	red Cou	irses	
	EET	3410	Electric Machines	
	EET	3420	Electric Power Distribution	
	EET	3430	Power Generation Using Solar Energy	3
	EET	3720	Control Systems Laboratory	
	EET	3730	Process Control Systems.	
	EET	3740	Programmable Logic Controllers	
	MET	3120	Heat Transfer	
	XXX	XXX	Upper-division EET Electives	2
	Subtote	al		18

Required Technical Courses	63
Additional Courses	
Area of Emphasis**	
Total	134
**In select cases, a minor in another department may be substituted for ar approval of the chair of the Engineering Technology and Industrial Studies	
MINOR IN ELECTRICAL ENGINEERING TECHNOLOGY	
Required Courses	Semester Hours
FFT 2000 Electronic Circuits and Machines	3

Requi	red Co	Semester Hours
EET	2000	Electronic Circuits and Machines
		(The sequence EET 1100, EET 1110, EET 1120, EET 1130 may be substituted.)
EET	2320	Digital Circuits I
		(EET 2310 may be substituted for computer science majors.)
EET	2340	Technical Programming Applications
		(CSI 1300, 2220, CMS 2110, MTH 1510, or MET 3210 may be substituted.)
EET	3010	Industrial Electronics
		(The sequence EET 2140 and EET 2150 may be substituted.)
EET	3330	Digital Circuits II
EET	3360	Microprocessors
Total.		

Mechanical Engineering Technology

The day and evening program is continually upgraded to reflect state-of-the art technology while meeting the needs of industry and employers of the MET 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.

Graduates enter the engineering profession as engineering technologists. About 15 percent choose to take the Fundamentals of Engineering (F.E.) examination following graduation, to begin the six-year process, as a minimum, to become a registered professional engineer. The latter is often required for forensic (expert witness) and/or consulting work, when the health and safety of the general public are involved. A smaller percentage attend graduate school. 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.

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 63 percent of the courses requiring laboratory work in addition to lectures. It is structured with two distinct areas of emphasis: manufacturing and mechanical. Students are required to take a four-hour assessment examination prior to graduation. The written exam is given in the Senior Experience course in each emphasis.

MECHANICAL ENGINEERING TECHNOLOGY MAJOR FOR BACHELOR OF SCIENCE

Requi	red Tec	hnical Courses		Se	en	1e	st	er	· I	Ho	u	rs
MET	1000	Materials and Manufacturing Technology					٠	٠				3
MET	1010	Manufacturing Processes										
MET	1310	Principles of Quality Assurance			2 030					. 100		3
MET	2200	Materials of Engineering										
MET	2210	Mechanical Drawing										3
MET	2220	Computer-Aided Drafting for Engineering Technology		٠.								3
MET	3010	Fluid Flow I						•				3
MET	3060	Statics and Dynamics										4
MET	3070	Machine Design										3
MET	3080	Statics Laboratory										1
MET	3090	Dynamics Laboratory										1
MET	3110	Thermodynamics I										3
MET	3210	Introduction to Computer Aided Engineering										4
MET	3410	Geometric Dimensioning and Tolerancing	×		٠							3
MET	4000	Project Engineering										3
Subtote	al										. 4	13

	Addit	ional Te	echnical Course Requirements:	Semester Hours
	CEN	1200	Technical Drawing I (or equivalent experience)	3
	CEN	3130	Mechanics of Materials	3
	CEN	3140	Mechanics of Materials Laboratory	1
	EET	2000	Electric Circuits and Machines	3
	EET	3010	Industrial Electronics	4
	Subtot	al		14
			ourse Requirements:	
	CHE	1800*	THE COUNTY OF TH	1
	COM	2610	Introduction to Technical Writing.	
	ECO	2010*		
	ENG		그렇게 하나 이번 바람이 있다. 그런데 이렇게 하시면데 그를 보고 있었다면 하게 되었다. 그는 사람들이 얼마나 하나 아니라 아니라 그런 그를 하는데 하게 되었다. 이 사람들이 되었다.	
		1010*	그 사람들은 이 그리고 있다면 함께 되었다. 아이들의 바다 이번 사람들이 어린 사람들이 되었다. 그리고 그를 내려가 되었다. 그리고	
	ENG	1020*		
	MTH	1400*	Control of the Contro	
	MTH	1410*		
	MTH	2410*		
	PHY	2010*	2	
	PHY	2020*		
	PHY	2030*		
	PHY	2040*		
	PHI	1030*		3
	SPE	1010*	Fundamentals of Speech Communication	3
	XXX	XXX*	Level II General Studies – Historical	3
	XXX	XXX*	Level II General Studies – Arts and Letters	3
	XXX	XXX*	Level II General Studies – Social Science	3
	Subtot	al		53
	*Some	of these	courses may be used to satisfy General Studies, including the 3 credit	hour Multicultural
	requir	ement.	점점 그릇이 있다. 전경이 경험하는 것이 없다는 맛있는 아버지라는 것이다.	
ADI	ZAC OF	EMDUA	SIS (CHOOSE ONE AREA OF EMPHASIS.)	
AKI	LAS OF	EMPHA	SIS (CHOOSE ONE AREA OF EMPHASIS.)	
Ma	nufacti	ıring		
	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	4010*	* Advanced Manufacturing Technology	3
	MET	4080	Computer-Aided Manufacturing	3
	Subtot	al		22
Me	chanica		Fluid Flow II	
	MET	3020		
	MET	3120	Heat Transfer	
	MET	3140	Heat Transfer Laboratory	
	MET	3310	Thermodynamics II	
	MET	3320	Instrumentation Laboratory	
	MET		* Computer-Aided Design	
	MET	4280	Advanced Energy Technology	
	XXX	XXX	Upper-division MET Elective	
	Total .			131–132
	**Seni	ior Expe	rience courses.	
Mo	obonio	l Engi	neering Technology Minor Requirements	
Me				
	MET	1000	Materials and Manufacturing Technology	
	MET	1010	Manufacturing Processes	
	MET	1310	Principles of Quality Assurance	
	MET	2200	Materials of Engineering	
			MET Electives	
	Total.			18

HEALTH PROFESSIONS DEPARTMENT

The purposes of the programs in the Health Professions Department are to stimulate the personal and professional development of health care 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 two baccalaureate majors: a bachelor of science degree with a major in nursing and a bachelor of science degree with a major in health care management and coordinates two interdisciplinary minors (Holistic Health and Wellness Education and Gerontology). Health services courses are offered for non-health majors and health majors.

Students must earn a grade of "C" or better in all courses required for the major (HCM, NUR prefix and all required support courses) in order to progress through the programs. 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.

Students desiring to enter programs in the Health Professions Department 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.

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 and management science, accounting, and economics, the program gives students a strong foundation in management as it specifically relates to health care.

Health 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. All general requirements of the college for a bachelor of science degree must be met prior to graduation.

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 Internship), based on previously agreed-upon objectives. The program exit evaluation will be a combined effort of the student, a faculty member, and preceptor.

He	alth C	are N	Ianagement Major for Bachelor of Science	
	Requi	red Co	urses	Semester Hours
	HCM	3010	Health Care Organization	
	HCM	3020	Management Principles in Health Care	3
	HCM	3030	Health Care Jurisprudence	3
	HCM	3300	Management Issues and Health Policy	
	HCM	4020	Human Resource Management in Health Care	3
	HCM	4030	Financial Management in Health Care	3
	HCM	4040	Health Care Economics	3
	HCM	4500	Health Care Management Pre-Internship	2
	HCM	4510	Health Care Management Internship	
	Total.			
	Requi	red Sup	oport Courses	
	ACC	2010	Principles of Accounting I	3
	ECO	2020	Principles of Economics—Micro	
	MKT	3000	Principles of Marketing	
	Appro	ved Stat	tistics Course	3
	Appro	ved Res	earch Course	3
			nputer Course	
	Total.			47

MINOR

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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.

Health care management majors who desire to work in institutions providing care to the elderly are encouraged to take the gerontological services minor.

MINOR IN HEALTH CARE MANAGEMENT

Requi	red Cou	urses	Semester Hours
HCM	3010	Health Care Organization	3
HCM	3020	Management Principles in Health Care	
HCM	3030	Health Care Jurisprudence	
HCM	4020	Human Resource Management in Health Care	3
HCM	4030	Financial Management in Health Care	
-0	r-		
HCM		Health Care Economics	
Subtot	al		15
Requi	red Sup	pport Courses	
		Principles of Accounting I	
Appro	ved Cor	nputer Course	3

Health Education Services

This group of courses is designed to meet special needs of non-health majors, as well as health majors. Effort is made to provide students with content relevant to individual needs. Students must consult a faculty adviser in the selection of appropriate General Studies courses.

HES	1050*	Dynamics of Health (meets social sciences General Studies requirement)
HES	2000	Health Politics and Policy (meets social sciences general studies requirement) 3
HES	2040*	Introduction to Nutrition (meets natural sciences general studies requirement) 3
HES	2150	Alternative Therapies for Health and Healing
		(meets natural sciences General Studies requirement)
HES	2180	AIDS: Acquired Immune Deficiency Syndrome
		(meets social sciences General Studies requirement)
HES	3070	Parental Health Care Issues
HES	3080	Maternal and Child Nutrition
HES	3100	Nutrition and Aging
HES	3200	Nutrition and Sports Performance
HES	3450	Dynamics of Disease (meets natural sciences general studies requirement)
HES	3500	Intermediate Nutrition
HES	3600	Ethical Decision Making in Health Care
HES	3800	Clinical Pathophysiology
HES	3820	Health Care Counseling

Note: The holistic health and wellness education multi-minor may be arranged through the Health Professions Department and includes the required courses listed under the holistic health and wellness education multi-minor on page 157 of this Catalog.

Nursing

The purposes of the Baccalaureate Registered Nurse Program are to provide the diploma and associate degree nurse graduate with a broad educational base for improvement of nursing practices, preparation for meeting future health care needs of society, preparation for graduate education in nursing, and opportunity for continuous personal growth and professional development.

EDUCATIONAL GOALS AND OUTCOMES

The Baccalaureate Registered Nurse Program has established the following exit behaviors for all graduates:

The student will be able to:

- Demonstrate, through nursing practice, a perception of individuals as living, open systems influenced by their biological, psychological, sociological, and cultural environment as they strive for high-level wellness.
- Use discriminatory judgment in applying the nursing process of assessing, analyzing, planning, implementing, and evaluating to help clients prevent illness and maintain and promote high-level wellness
- Collaborate with clients and interdisciplinary teams both as a consumer and as a provider of care, striving to achieve optimum health care delivery within an ethical framework.
- Act as a resource person in a variety of settings.
- · Act as a change agent when change is indicated.
- Assume responsibility for clinical teaching to promote high-level wellness.
- Demonstrate a systematic approach to the investigation of health care problems and use the results
 of scholarly research to promote high-level wellness.
- Accept accountability for clinical practice and continued learning by acquiring knowledge and skills that meet the changing needs of self, clients, professional nursing, and society.

^{*}Required in holistic health and wellness education multi-minor.

ADMISSION REQUIREMENTS

In order to qualify for admission to the Baccalaureate Registered Nurse Program the student must:

- Be a graduate from an associate degree or diploma nursing program in the United States.
- · Be currently licensed as a registered nurse in Colorado.
- Be certified in Basic Cardiac Life Support.
- Have proof of current immunizations for diphtheria, tetanus, polio, MMR (measles, mumps, rubella), and hepatitis B.
- Have proof of negative tuberculosis screening (PPD or Mantoux or negative chest x-ray).
- Carry individual/personal nurses' malpractice/liability insurance in the amount of \$1,000,000/ \$3,000,000.
- · Be advised by faculty in the nursing program.
- Have copies of all transcripts on file in the Department of Health Professions.
- · Have copy of transcript evaluation from MSCD on file in the Department of Health Professions.
- Have completed 30 semester hours of college-level coursework (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.

Students lacking these credits are encouraged to take the College Level Examination Program (CLEP) examinations or required support courses.

- Have recent clinical experience (1,000 hours in the past three years or an approved refresher course in the past three years). If the student has graduated within three years of entering the nursing program, additional clinical experience is not needed.
- · Qualify for the Colorado Statewide Nursing Articulation Model/Agreement by one of the following:
 - a. Graduate from a nursing school in the United States.
 - b. Graduate from a non-U.S. nursing program and successful completion of ACT PEP examinations (Proficiency Examination Program) prior to entering NUR 3110. A passing score of 45 must be achieved on the following examinations: Adult Nursing (#554); Maternal and Child Nursing, Associate Level (#453); and Psychiatric/Mental Health Nursing (#503). The examinations need to be retaken if the student has not enrolled in a baccalaureate nursing program within three years of taking the ACT PEPs. The examinations may be repeated until a passing score is obtained. Twenty-four semester hours credit are awarded upon completion of the three examinations and eight semester hours in residence at MSCD. ACT PEP information is available from a nursing adviser in the Department of Health Professions.

The nursing program offers day and evening classes to accommodate working professionals. Because of the rigorous demands of this program, students 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 NUR prefix course. Students are encouraged to arrange meetings with their academic adviser on an as-needed basis, which shall not be less than once each year. Students are strongly urged to seek academic advising by a nursing faculty adviser prior to registration each semester.

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

Nursing Major for Bachelor of Science

Requi	red Cou	irses	Semester Hours
NUR	3110	Transitions in Nursing	3
NUR	3550	Leadership	
NUR	3700	Assessment	4
NUR	3850	Clinical Teaching Methods	3
NUR	4200	Research	3
NUR	4400	Community Health Nursing	4
NUR	4410	Community Health Nursing: Application	5
NUR	4850	Nursing Process: Application	5
Total.			30
Requi	red Sup	pport Courses	
HCM	3030	Health Care Jurisprudence	3
HCM	4040	Health Care Economics	
HES	3600	Ethical Decision Making in Health Care	3
HES	3800	Clinical Pathophysiology	4
HES	3820	Health Care Counseling	3
Appro	ved Con	nputer Course	3
Appro	ved Stat	ristics Course	3–4
Total .			25–26
Prerec	quisite		
Lower	-division	n nursing credit per the Colorado Statewide Articulation Model	24
Nursi	ng Elect	tives	
NUR	3510	Nursing Diagnosis	1
NUR	3880	Nurse Practice Acts	3
NUR	4100	Critical Care Nursing	4
NUR	4760	Nursing Theories	2

HOLISTIC HEALTH AND WELLNESS EDUCATION MULTI-MINOR

The holistic health and wellness education multi-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 multi-minor is designed to complement a major chosen by a student that is relevant to the student's career goals.

The multi-minor comprises 21 hours of study:

Requi	red Cou	ırses				Se	em	ies	te	r	H	ou	ırs
HES	1050	Dynamics of Health	 	 	 	٠,		6.6		. ,			. 3
HES	2040	Introduction to Nutrition	 	 	 								. 3
HPS	1640	Physical Fitness Techniques and Programs	 	 	 								. 2
HSW	3750	Holistic Health and High-Level Wellness	 	 	 								. 4
PHI	3220	Personal Knowledge and Professional Growth	 	 	 								. 3
PSY	2750	Introduction to Holistic Health	 	 	 								. 3
Electiv	ves*		 	 	 								. 3
Total.			 	 	 			. ,			٠.		21

^{*}Practical experience is an integral part of this minor and Individualized Degree Program. Students are urged to enhance their education through fieldwork. This can be achieved through practicums, internships, and cooperative education offerings in one of the above listed departments or by using these elective hours.

GERONTOLOGICAL SERVICES MINOR

This interdisciplinary minor emphasizes the knowledge and skills that entry-level professionals use in working with older adults, and the management of resources that are provided in this rapidly expanding field of service. This applied, interdisciplinary curriculum complements a variety of academic majors and professionally oriented programs on campus. The minor requires that a practicum, or field experience involving older adults, be taken after all core courses have been completed, unless such a requirement has been met either by the major or through previous experience.

Requi	Semester Hours		
HES	4520	Internship in Gerontology	3
HCM	3020	Management Principles in Health Care	3
LES	2330	Advocacy, Leisure and the Aging Adult	
PSY	3270	Adulthood and Aging	
SOC	1040	Introduction to Gerontology	3
SPE	4760	Communication and the Elderly	
SWK	3030	Social Work with the Aging	4
Total.			
Electiv	ves: Up	on advisement, the following courses may be taken to substitute for	previously taker
		or for specific career objectives.	
LES	3070	Health and Movement Problems in the Aging Adult	
PSY	2270	Death and Dying	
SOC	3040	Contemporary Issues in Gerontology	
SWK	3020	Case Management in Social Work Practice	4
*These	requir	ements are being revised. See the department chair for current guideling	ies.

HOSPITALITY, MEETING AND TRAVEL ADMINISTRATION DEPARTMENT

Major for Bachelor of Arts

The Hospitality, Meeting and Travel Administration Department provides a flexible and individualized interdisciplinary major program leading to a bachelor of arts degree and four minor programs.

Students are offered areas of emphasis in hotel, meeting, restaurant, or travel administration. Each area of emphasis is designed to provide students with the theoretical knowledge and practical experience needed for employment in these rapidly expanding industries.

To be awarded a degree, the student must complete the MSCD General Studies requirements. Students must consult with faculty advisers for selection of approved General Studies courses.

In addition to meeting degree requirements, including the General Studies requirements, the HMTA student must:

- Maintain a grade point average of 2.25.
- Demonstrate a typing proficiency of 35 wpm.
- · Present CPR and first-aid certification.
- · Demonstrate a basic competence in a foreign language.*
- Present verification of 1,200 clock hours of on-the-job experience in the HMTA areas of emphasis. These may be secured through paid job experience, cooperative education, externships, or a combination of the three. No more than nine semester hours in cooperative education will be accepted, and these hours must contain specific descriptions of the job duties performed.
- Travel students must present certification of 40 clock hours of computer reservation training.
- Complete a graduation agreement and have it approved by the adviser no later than the third semester of enrollment (second semester for transfer students) in the HMTA program.

*Competence to be certified by the Modern Language Department as having the equivalence of or taking SPA/FRE 1110 or SPA/FRE 1120 (or other approved language) and earning a grade of "C" or better.

HMTA	Core (Required of all HMTA Majors)	Se	m	ies	ste	er	H	01	urs
ANT 2	2330	Cross-Cultural Communication	 							.3
CMS	1010*	Introduction to Computers								. 3
HMT	1020	Principles of Hotel/Restaurant Administration	 							. 3
HMT		Principles of Meeting/Travel Administration								
HMT	1090*	Job Search Strategies	 							. 2
HMT 4	1650	Hospitality Employee Resource Development								. 3
MGT 3	3000*	Organizational Management				,				. 3
SPE 3	3740	Psychology of Communication								.3
Total			 	٠				ě		23

^{*}Or equivalent approved by HMTA faculty adviser.

A.....

	el Adn	ninistra	ntion Emphasis		
	Requi	red Cou	ırses		
	ACC	2010	Principles of Accounting I	 	
	HMT	2560	Hotel Financial Accounting		
	HMT	3510	Hotel Administration I	 	
	HMT	3520	Hotel Administration II		
	HMT	3560	Hotel/Restaurant Law	 	
	HMT	3570	Hospitality Marketing		
	HMT	3600	Beverage Control	 	
	HMT	3650	Hospitality Property Management	 	
	HMT	3660	Restaurant Administration I		
	HMT	4660	Training and Development in Hospitality		
	Subtot	al		 	30
	Plus a	minim	um of three courses selected from the following:		
	HMT	1610	Kitchen Procedures and Production I	 	
	HMT	1620	Kitchen Procedures and Production II	 	
	HMT	2000	Externship I		
	HMT	2500	Applied Hotel/Restaurant Operations		
	HMT	2760	Meeting Administration I	 	
	HMT	3610	Enology: The Study of Wine		
	HMT	3670	Restaurant Administration II		
	HMT	3750	Promotional Materials: Analysis and Design		
	HMT	4000	Externship II		
	HMT	4010	Externship III		
	HMT	4500	Hospitality Sales		
	HMT	4590	Seminar in Hotel Administration		
	HMT	4730	Principles of Negotiation		
	HMT	4790	Seminar in Meeting (Variable Topics)	 	
	Subtot	al			
	Total .			 	38–4
Rest					
			nietration Emphacie		
1405			nistration Emphasis		
reco	Requi	red Cou	urses		
resi	Requi	red Cou 2010	Principles of Accounting I		
TCS.	Requir ACC HMT	2010 1610	Principles of Accounting I	 	
res	Requi ACC HMT HMT	2010 1610 1620	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II.	 	
res	Requir ACC HMT HMT HMT	2010 1610 1620 2650	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting	 	
res	Requi ACC HMT HMT HMT HMT	2010 1610 1620 2650 3560	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law	 	
ACS!	Requir ACC HMT HMT HMT HMT	2010 1610 1620 2650 3560 3570	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing	 	
ACS!	Requi ACC HMT HMT HMT HMT HMT	2010 1610 1620 2650 3560 3570 3600	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing. Beverage Control	 	
ACS.	Requi ACC HMT HMT HMT HMT HMT HMT	2010 1610 1620 2650 3560 3570 3600 3610	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing. Beverage Control Enology: The Study of Wine		
ACS.	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing. Beverage Control Enology: The Study of Wine Hospitality Property Management.		
Acs.	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I		
Acs.	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3660 3670	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3660 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality tration Emphasis		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality tration Emphasis rese Principles of Accounting I		
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality tration Emphasis rese Principles of Accounting I Meeting Administration I.		
	Required ACC HMT	red Cou 2010 1610 1620 2650 3560 3570 3600 3610 3650 3670 4660 dminis	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality **Tration Emphasis** Irses Principles of Accounting I Meeting Administration I Promotion Materials: Analysis and Design		3
	Required ACC HMT	2010 1610 1620 2650 3560 3570 3600 3670 4660 dminis red Cou 2760 3750 3760	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality **Tration Emphasis** Irses Principles of Accounting I Meeting Administration I Promotion Materials: Analysis and Design Meeting Administration II		3
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	Required ACC HMT HMT HMT HMT HMT HMT Total. Sting A Required ACC HMT HMT HMT HMT HMT HMT HMT ACC HMT	2010 1610 1620 2650 3560 3570 3600 3610 3650 3660 3670 4660 dministred Cour 2760 3750 3760 4790 2840	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II. Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management. Restaurant Administration I Restaurant Administration II. Training and Development in Hospitality **Tration Emphasis** Irses Principles of Accounting I Meeting Administration I Promotion Materials: Analysis and Design Meeting Administration II Seminar in Meeting: Variable Topics Fundamentals of Public Relations		.33
	Required ACC HMT HMT HMT HMT HMT HMT Total. Sting A Required ACC HMT	red Cou 2010 1610 1620 2650 3560 3570 3600 3650 3660 3670 4660 	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II Kitchen Procedures and Production II Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management Restaurant Administration I Restaurant Administration II Training and Development in Hospitality **Tration Emphasis** Irses Principles of Accounting I Meeting Administration I Promotion Materials: Analysis and Design Meeting Administration II Seminar in Meeting: Variable Topics Fundamentals of Public Relations Principles of Marketing		.33
	Required ACC HMT HMT HMT HMT HMT HMT HMT Total. Sting A Required ACC HMT	red Cou 2010 1610 1620 2650 3560 3570 3600 3670 4660 dminis red Cou 2760 3750 3760 4790 2840 3000 al	Principles of Accounting I Kitchen Procedures and Production I Kitchen Procedures and Production II Kitchen Procedures and Production II Restaurant Financial Accounting Hotel/Restaurant Law Hospitality Marketing Beverage Control Enology: The Study of Wine Hospitality Property Management Restaurant Administration I Restaurant Administration II Training and Development in Hospitality **Tration Emphasis** **Tration		
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	Categ	gory I (Select 3 hours plus MGT 4000-3 Organizational Decision Making)
	ECO	2020	Principles of Economics—Micro
	ECO	3150	Econometrics
	ECO	3500	Managerial Economics
	MGT	2210	Legal Environment of Business I
	MKT	3110	Advertising
	MKT	3120	Promotional Strategy
	MKT	3160	Sales Management
	MKT	3710	International Marketing
	MGT	4000-3	3 Organizational Decision Making
	Subtote		6
	Cateo	ory II	(Select 6 hours)
	COM	2430	Introduction to Technical Media
	HMT	3780	Leadership by Objectives
	HMT	4720	Meeting Law
	HMT		Principles of Negotiation
			Trinciples of Regoliation 6
			I (Select 6 hours)
	HMT	1810	Basic Ticketing and Reservation Procedures
	HMT	2500	Applied Hotel/Restaurant Operations
	HMT	3510	Hotel Administration I
	HMT	3520	Hotel Administration II
	HMT	3660	Restaurant Administration I
	HMT	3670	Restaurant Administration II
	HMT	4810	Tour Management
			6
	Total.		
Tra	vel Ad	minist	ration Emphasis
Tra			ration Emphasis
Tra	Requi	red Cou	Irses Semester Hours
Tra	Requi	red Cou 1810	Basic Ticketing and Reservations Procedures
Tra	Requi HMT HMT	1810 1820	Basic Ticketing and Reservations Procedures
Tra	Requir HMT HMT HMT	1810 1820 1830	Basic Ticketing and Reservations Procedures
Tra	Requir HMT HMT HMT HMT	1810 1820 1830 2840	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4
Tra	Requi HMT HMT HMT HMT	1810 1820 1830 2840 2860	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2
Tra	Requi HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4
Tra	Requi HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2
Tra	Requi HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810 4820	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2
Tra	Requir HMT HMT HMT HMT HMT HMT HMT HMT HMT HMT	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT HMT Subtots	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 al	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 38 38
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT HMT Subtots	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 al	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 surs of credit in a travel specialization from the categories below:
Tra	Requi HMT HMT HMT HMT HMT HMT HMT HMT HMT Subtots	1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 al	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 38 38
Tra	Requirement of the select Air Tr	red Cot 1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 al two horavel Sp	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 surs of credit in a travel specialization from the categories below:
Tra	Requirement of the second of t	red Cot 1810 1820 1830 2840 2860 3850 4810 4820 4830 4840 4890 al two horavel Sp. 3830	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 2 Seminar in Travel: Variable Topics 2 surs of credit in a travel specialization from the categories below: becialization Inflight Services 2
Tra	Requirements of the second sec	red Cot 1810 1820 1830 2840 2860 3850 4810 4820 4830 4840 4890 al two hor ravel Sp 3830 3840 4850	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 urs of credit in a travel specialization from the categories below: 38 vecialization 1 Inflight Services 2 Airport Services 3 Airline Sales 2
Tra	Requirements of the second sec	red Cot 1810 1820 1830 2840 2860 3850 4810 4820 4830 4840 4890 al two hor ravel Sp 3830 3840 4850	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 urs of credit in a travel specialization from the categories below: 38 vecialization 1 Inflight Services 2 Airport Services 3 Airline Sales 2
Tra	Requirement of the second of t	red Cot 1810 1820 1830 2840 2860 3850 4810 4820 4830 4840 4890 3850 3840 4850 1 Agence 2850	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 Inflight Services 2 Airport Services 2 Airline Sales 2 ty Specialization 1 Travel Agency Accounting 3
Tra	Requirement of the second of t	red Cou 1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 al two horavel Sp 3830 3840 1 Agence 2850	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 secialization 3 Inflight Services 2 Airport Services 3 Airline Sales 2 ty Specialization 3 Travel Agency Accounting 3 Tavel Specialization 3
Tra	Requirement of the second of t	red Cou 1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 at two hose 3830 1 Agence 2850 orate Tr 3890	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 Inflight Services 2 Airport Services 3 Airline Sales 2 Travel Agency Accounting 3 Travel Specialization 3 Cases in Corporate Travel Management 2
Tra	Requirement of the second of t	red Cou 1810 1820 1830 2840 2860 3850 3860 4810 4820 4830 4840 4890 at two hose 3830 1 Agence 2850 orate Tr 3890	Basic Ticketing and Reservations Procedures 4 Travel References and Case Studies 2 Cruise Development, Marketing and Sales 4 Tour Operations 4 Tourism 2 Financial Management in the Travel Industry 4 Incentive Travel 2 Tour Management 4 Marketing in the Travel Industry 4 Corporate Travel Management 2 Travel Industry Management 4 Seminar in Travel: Variable Topics 2 vecialization 3 Inflight Services 2 Airport Services 3 Airline Sales 2 vy Specialization 7 Travel Agency Accounting 3 Tavel Specialization 3

MINORS

The Hospitality, Meeting and Travel Administration Department offers minors in all four areas of emphasis. Students are expected to know any prerequisites for courses in other departments.

Noncourse Requirements:

- 300 clock hours of on-the-job experience
- · CPR and first-aid certification
- Basic competence in a foreign language
- Typing proficiency of 35 wpm
- Travel students—verification of 40 clock hours of computer reservation training by a qualified reservation trainer or manager.

Hotel	Adn	inict	ration	Minor
notei	Aun	шизи	ration	VIIIIOI

HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 3510 Hotel Administration I 3 HMT 3520 Hotel Administration II 3 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 3 Total 24 Restaurant Administration Minor 24 Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3510 Hotel Administration I 3 HMT 3520 Hotel Administration II 3 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 3 24 Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3500 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 3 Total 24 Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 3 Total 24 Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3570 Hospitality Marketing 3 HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 3 Total 24 Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3660 Restaurant Administration I 3 HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser) 24 Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 4650 Hospitality Employee Resource Development 3 HMT Electives (approved by faculty adviser)
HMT Electives (approved by faculty adviser) 3 Total 24 Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
Total. 24 Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II. 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
Restaurant Administration Minor Required Courses HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 1020 Principles of Hotel/Restaurant Administration 3 HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 1610 Kitchen Procedures and Production I 4 HMT 1620 Kitchen Procedures and Production II 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 1620 Kitchen Procedures and Production II. 4 HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3560 Hotel/Restaurant Law 3 HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3570 Hospitality Marketing 3 HMT 3600 Beverage Control 3 HMT 3660 Restaurant Administration I 3
HMT 3600 Beverage Control
HMT 3660 Restaurant Administration I
HMT 3670 Restaurant Administration II
1 2 1 2
Total
Meeting Administration Minor
Required Courses
HMT 1020 Principles of Hotel/Restaurant Administration
HMT 1810 Basic Ticketing and Reservations Procedures
HMT 2760 Meeting Administration I
HMT 3750 Promotion Materials: Analysis and Design
HMT 3760 Meeting Administration II
HMT 3780 Leadership by Objectives
HMT 4720 Meeting Law
HMT 4730 Principles of Negotiation
Total
Travel Administration Minor
Required Courses
HMT 1810 Basic Ticketing and Reservations Procedures
HMT 1820 Travel References and Case Studies
HMT 1830 Cruise Development, Marketing and Sales
HMT 2840 Tour Operations
HMT 3750 Promotional Materials: Analysis and Design
HMT 3850 Financial Management in the Travel Industry
HMT 4810 Tour Management
HMT 4820 Marketing in the Travel Industry
HMT 4830 Corporate Travel Management
HMT 4890 Seminar in Travel: Variable Topics
Total33

HUMAN PERFORMANCE, SPORT AND LEISURE STUDIES DEPARTMENT

The Human Performance, Sport and Leisure Studies Department offers coursework leading to a bachelor of arts degree. Students preparing for work in industry or for graduate study can choose one of the human performance and sport emphasis areas (adult fitness and exercise science, athletic training, or sport and allied fields), or one of the leisure study emphasis areas (leisure service management or therapeutic recreation). Those students preparing to teach in a public or private school can choose either the elementary, secondary, K–12, secondary physical education/athletic training, or secondary physical education/coaching emphasis.

Students seeking teaching licenses in physical education must satisfy the teacher licensure program requirements in addition to all the requirements of the Human Performance, Sport and Leisure Studies 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 Early Childhood and Elementary Education Department or the Secondary Education Department for information regarding teacher licensure admissions.

Additional requirement: A grade of "C" or better is required for all HPSL courses taken in any major/minor emphasis areas.

Semester Hours

Human Performance and Sport Major for Bachelor of Arts

ELEMENTARY PHYSICAL EDUCATION EMPHASIS

Professional Activity Courses

Basic Skills (all of the following)

HPS	1620	Fundamentals of Movement
HPS	1640	Physical Fitness
HSL	150Q	Tumbling
Team	Sports	(four of the following)
HSL	150I	Volleyball2
HSL	150B	Basketball2
HSL	150P	Soccer/Speedball
HSL	150V	Football/Flag Football
HSL	150U	Softball
HSL	150R	Field Hockey/Floor Hockey
Misce	llaneous	s (two of the following)
HSL	150L	Square and Folk Dance
HSL	150D	Track and Field
HSL	150X	Wrestling
HSL	1500	Lifeguard Training
HSL	150K	Racquetball and Handball2
Addit	ional El	ementary Activity Courses
HPS	2500	Activities for the Young Child
HPS	2520	Rhythms for the Young Child
HPS	2580	Movement Education
Subto	tal	
Theor	y Classe	es (all of the following)
HPS	1600	Introduction to Human Performance and Sports
HPS	3300	Anatomical Kinesiology
HPS	3340	Physiology of Exercise
HPS	3460	Evaluation and Measurement in Human Performance, Sport and Leisure Studies 3
HPS	3500	Methods of Teaching Human Performance and Sports for Children
HPS	4500	Psychology of Motor Learning
HPS	4600	Organization, Administration of Human Performance and Sports Programs
Appro	ved Elec	tives
Subto	tal	
Total	Minimun	n Hours for Major
		nt First Responder and CPR for the Professional Rescuer card is required. Students may

Note: A current First Responder and CPR for the Professional Rescuer card is required. Students may take HPS 2060 or complete a First Responder and CPR for the Professional Rescuer courses from the American Red Cross.

Physical Education Licensure (K-6)							Se	en	ies	ste	r	H	ours
EDT	3110	Introduction to Educational Technology			 								2
EDU	2120	Elementary Education in the United States			 								3
EDU	3120	Curriculum and Management: Preprimary-6			 								4
EDU	4190	Student Teaching and Seminar: Elementary K-6			 			٠					. 10
HPS	4620	Adaptive Human Performance and Sports Activities			 	 		,					3
PSY	1800	Developmental Educational Psychology			 								4
RDG	3130	Teaching Reading in the Elementary School: K-6			 								4
Total.				2 0	 	2 70/11/2		07.207	alva	na na			30

SECONDARY PHYSICAL EDUCATION EMPHASIS

Basic Skills (all of the following)

Professional Activity Courses

Secondary physical education majors must present proof of proficiency in 15 different activities. A total of 32 credits will be counted toward completion of the major requirements. Students must present proof of proficiency by receiving a grade of "C" or better in Human Performance, Sport and Leisure courses. The curriculum is being revised. Please check with the department.

Dasic i	okilis (a	if of the following)
HPS	1620	Fundamentals of Movement
HPS	1640	Physical Fitness
HPS	1660	Swimming
HSL	150Q	Tumbling
Team	Sports (4 of the following)
HSL	150B	Basketball
HSL	150R	Field Hockey/Floor Hockey
HSL	150V	Football/Flag Football
HSL	150P	Soccer/Speedball
HSL	150U	Softball
HSL	150I	Volleyball
	50000	orts (5 of the following)
HSL	150O	Lifeguard Training
HSL	150W	Archery and Badminton
HSL	150W	Golf
HSL	150A	Gymnastics. 2
HSL	150A 150S	
HSL	150S	Personal Defense
		Racquetball and Handball
HSL	150T	
HSL	150D	Track and Field
		(3 of the following)
HSL	150Y	Ballroom Dancing
HSL	150G	Improvisation and Choreography
HSL	150L	Square and Folk Dance
HSL	150E	Weight Training
HSL	150X	Wrestling
Subtote	$al \dots$	
Theory	y Cours	es (all of the following)
HPS	1600	Introduction to Human Performance and Sports
HPS	3300	Anatomical Kinesiology
HPS	3320	Biomechanics
HPS '	3340	Physiology of Exercise
HPS	3400	Methods of Teaching Human Performance and Sports for the
		Adolescent and Young Adult
HPS	3460	Evaluation and Measurement in Human Performance, Sport and Leisure Studies 3
HPS	4600	Organization, Administration of Human Performance and Sport Programs
Approv	ved Elec	tives
		Hours for Major55
		t First Responder and CPR for the Professional Rescuer card is required. Students may
		or complete a First Responder and CPR for the Professional Rescuer courses from the
	can Red	

Students seeking teacher licensure in secondary physical education must take the following additional courses:

Secon	dary Ph	sysical Education Licensure 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	Secondary School Curriculum and Classroom Management
EDS	3220	Field Experience in Teaching, Materials Construction, and Classroom Management 3
EDS	4290	Student Teaching and Seminar: Secondary (7–12)
EDT	3610	Introduction to Educational Technology
HPS	4620	Adaptive Human Performance and Sports Activities
RDG	3280	Teaching of Reading and Writing in the Content Areas
Total		35–3

K-12 PHYSICAL EDUCATION EMPHASIS

Basic Skills (all of the following)

Students must be proficient in 16 different activities selected from the categories below. A total of 32 credits will be counted toward completion of the major requirements. Students must present proof of proficiency by receiving a grade of "C" or better in human performance and sports and leisure courses.

Professional Activity Courses

		in of the following)	
HHPS	1620	Fundamentals of Movement	
HPS	1640	Physical Fitness	
HPS	1660	Swimming	
HSL	150Q	Tumbling	
Team	Sports	(4 of the following)	
HSL	150B	Basketball	
HSL	150R	Field Hockey/Floor Hockey	
HSL	150V	Football/Flag Football	
HSL	150P	Soccer/Speedball	
HSL	150U	Softball	
HSL	150I	Volleyball	
		orts (5 of the following)	
HSL	1500	Lifeguard Training	
HSL	150W	Archery and Badminton	
HSL	150F	Golf	
HSL	150A	Gymnastics	
HSL	150S	Personal Defense	
HSL	150K	Racquetball and Handball2	
HSL	150T	Tennis	
HSL	150D	Track and Field	
Miscel	laneous	(3 of the following)	
HSL	150Y	Ballroom Dancing	
HSL	150G	Improvisation and Choreography	
HSL	1501	Repertory Choreography	
HSL	150L	Square and Folk Dance	
HSL	150E	Weight Training	
HSL	150X	Wrestling	
Subtoto	ıl	32	
	Classe		
HPS	1600	Introduction to Human Performance and Sports	
HPS	2500	Activities for the Young Child	
HPS	2520	Rhythms for the Young Child. 2	
HPS	2580	Movement Education	
HPS	2780	Care and Prevention of Athletic Injuries	
HPS	3300	Anatomical Kinesiology	
HPS	3320		
HPS	3340	Biomechanics	
HPS	3400	Physiology of Exercise	
HPS	3400	Methods of Teaching Human Performance and Sport for the	
LIDC	2460	Adolescent and Young Adult	
HPS	3460	Evaluation and Measurement in Human Performance, Sport and Leisure Studies 3	

Plu	s 9 hou	rs selected from the following:
HE	S 20	0 Introduction to Nutrition
HS	P 14	0 Addictive Experiences: Sex, Drugs, Rock and Roll
HP	S 27	0 Fundamentals of Coaching
HP	S 39	0 Field Experience in Human Performance and Sports1-3
LES	S 37	O Administration of Intramural Sports and Student Recreation
LES	S 47	0 Sociology of Athletics in American Society
Sub	total .	9
Ho	urs Cod	ching
Ho	urs Sec	ndary Human Performance and Sport Major55
Tota	al Mini	num Hours for Major75
Mot	a. Tag	hing licensure requirement would be the same as the secondary physical education license

Note: Teaching licensure requirement would be the same as the secondary physical education license. Completion of this program eliminates the requirement of a minor.

Sport and Allied Fields Areas of Emphasis

Requ	urses Semester Hour	S	
HPS	1600	Introduction to Human Performance and Sports	2
HPS	2060	Emergency Rescue/First Responder and CPR (or valid American Red Cross Card)	3
HPS	3300	Anatomical Kinesiology	3
HPS	3320	Biomechanics	3
HPS	3340	Physiology of Exercise	3
HPS	3620	Trends and Issues in Human Performance and Sports	2
HSL	1500	Professional Activities (select any 12 credits)	2
LES	4730	Sociology of Athletics in American Society	
Appro	oved Ele	ctives*	3
Total			4

^{*}To be selected in accordance with student's intended career objectives. Must be preplanned with an adviser in the Human Performance, Sport and Leisure Studies Department and approved by the department chair.

Athletic Training Area of Emphasis

This emphasis area is designed for those primarily interested in athletic training at the high school, college, or professional level and is complementary to allied fields (e.g., biology).

Requi	ired Cou	urses	S	er	ne	st	er	H	ou	ırs
BIO	2310	Human Anatomy and Physiology I								. 4
BIO	2320	Human Anatomy and Physiology II								
HES	2040	Introduction to Nutrition								
HPS	1640	Physical Fitness Techniques and Programs								
HPS	2060	Emergency Rescue/First Responder and CPR								
HPS	2780	Care and Prevention of Athletic Injuries								
HPS	3000	Health Programs in Human Performance and Sport								
HPS	3300	Anatomical Kinesiology								
HPS	3320	Biomechanics								
HPS	3340	Physiology of Exercise								
HPS	3820	Mechanisms of Athletic Injury								. 3
HPS	3840	Evaluation Procedures in Athletic Training								. 3
HPS	3860	Therapeutic Modalities in Sports Medicine								
HPS	3990	Field Experience in Human Performance and Sports								
HPS	3990	Field Experience in Human Performance and Sports								
HPS	4600	Organization, Administration of Human Performance and Sports Pro-								
HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators.								
HPS	4760	Therapeutic Rehabilitation in Sports Medicine								
HPS	4870	Internship								
PSY	2160	Personality and Adjustment								
Total .										

Completion of this program eliminates the need for a minor.

To be accepted into the program, students must:

- have a declared major in human performance and sports with an athletic training emphasis
- have completed a minimum of 15 semester hours at MSCD
- have completed these prerequisite courses:

HPS 2060—Emergency Rescue/First Responder and CPR or equivalent BIO 2310/2320—Human Anatomy and Physiology I and II or acceptable transfer course

maintain a GPA of 2.75

To qualify for the NATA certification examination, students must complete 1,500 volunteer hours of work with a certified athletic trainer (not required for graduation).

Adult Fitness and Exercise Science Emphasis

Adult fitness and exercise science is an emphasis program 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, and private corporate fitness program development.

Profes	sional A	Activity Courses		Semester Hours
HSL	150C	Stress Management		2
HSL	150E	Weight Training		
Subtot	al			4
Basic	Theory	Courses		
HES	2040	Introduction to Nutrition		3
HPS	1640	Physical Fitness Techniques and Programs		2
HPS	2780	Care and Prevention of Athletic Injuries		3
HPS	3300	Anatomical Kinesiology		3
HPS	3340	Physiology of Exercise		3
HPS	3780	Fitness Programs for Special Populations		2
HPS	4200	Community Fitness Testing and Program Planning		
HPS	4660	Legal Liability for Physical Educators, Coaches and Adm	inistrators.	3
HPS	4680	Advanced Exercise Assessment Techniques		2
HPS	4840	Comparative Fitness Programs		2
HPS	4880	Internship		10
LES	3070	Health and Movement Problems in the Aging Adult		3
PSY	2410	Social Psychology		3
Subtot	al			
Total.				46
It is re	commen	s must have a 2.75 GPA to be eligible for an internship. aded that students take HPS 2060, Emergency Rescuer/First tification.	Responder o	and CPR, or verify

HUMAN PERFORMANCE AND SPORT MINOR

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The human performance and sport minor emphasis areas 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 skills in 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 emphasis area.

Ele	mentar	ry Area	of Emphasis Semester Hours
	HPS	2060	Emergency Rescue/First Responder and CPR and/or valid Advanced
			American Red Cross Card and 3 hours of HPSL Department electives 3
	HPS	2500	Activities for the Young Child
	HPS	2520	Rhythms for the Young Child
	HPS	2580	Movement Education
	HPS	3500	Methods of Teaching Human Performance and Sports for Children
	HPS	4600	Organization, Administration of Human Performance and Sports Programs 3
	HSL	1500	Professional Activities
	Total.		21

Sec	ondary	Area	of Emphasis
	HSL	1500	Professional Activities
	HPS	1620	Fundamentals of Movement
	HPS	2060*	Emergency Rescue/First Responder and CPR (or valid Advanced
			American Red Cross Card)
	HPS	3340	Physiology of Exercise
	HPS	3400	Methods of Teaching Human Performance and Sports for the Adolescent
			and Young Adult
	Appro	ved Elec	ctives (1500 or above of HPSL Department electives)
			valid Red Cross cards must substitute three hours of HPSL Department electives.
20			
Spo			Fields Area of Emphasis
	HPS	1600	
	HPS	2060	Emergency Rescue/First Responder and CPR and/or valid Advanced
			American Red Cross Card and 3 hours of HPSL Department electives
	HPS	3620	Trends and Issues in Human Performance and Sports
	HSL	1500	Professional Activities
	LES	4730	Sociology of Athletics in American Society
	Appro	ved Elec	ctives: Selected in accordance with student's intended career objectives.
			Must be preplanned with an adviser in the Human Performance, Sport and
			Leisure Department
	Total.		
Co	achino	Area o	f Emphasis
-	HPS	1620	Fundamentals of Movement
	HPS	1640	Physical Fitness Techniques and Programs
	HPS	2720	Fundamentals of Coaching
	HPS	2780	Care and Prevention of Athletic Injuries
	HPS	3340	Physiology of Exercise
	HPS	3700	Psychology of Coaching
	HPS	3720	Science and Art of Coaching and Athletic Administration
	HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators
	HSL	1500	Professional Activity Course
	HSL	150E	Weight Training
	100000	1306	weight framing
	Total.		24
Da		ea of E	mphasis
	HPS	1620	Fundamentals of Movement
	HPS	2440	Dance Production
	HPS	3300	Anatomical Kinesiology
	HPS	4500	Psychology of Motor Learning
	HSL	150Y	Ballroom Dancing
	HSL	150G	Improvisation and Choreography
	HSL	1501	Repertory Choreography
	HSL	1502	Teaching Dance (Ballet/Jazz/Modern)
	Select	one of t	the following electives:
	HSL	1503	Rhythmic Activities for Special Populations
		or-	
		2520	Rhythms for the Young Child
		or-	
	HPS	2780	Care and Prevention of Athletic Injuries
	Total		21–22

Ath	letic T	raining	Area of Emphasis
	HES	2040	Introduction to Nutrition
	HPS	1640	Physical Fitness Techniques and Programs
	HPS	2060	Emergency Rescue/First Responder and CPR
	HPS	2780	Care and Prevention of Athletic Injuries
	HPS	3000	Health Programs in Human Performance and Sport
	HPS	3300	Anatomical Kinesiology
	HPS	3320	Biomechanics
	HPS	3340	Physiology of Exercise
	HPS	4780	Advanced Techniques in Athletic Training
	PSY	2160	Personality and Adjustment
	Total.		
A .d.	.14 Eide		Evansias Caisnas Emphasis
Aut			Exercise Science Emphasis
	HES	2040	Introduction to Nutrition
	HPS	3780	Fitness Programs for Special Populations
	HPS	3990	Field Experience in Human Performance and Sport
	HPS	4680	Advanced Exercise Assessment Techniques
	HPS	4840	Comparative Fitness Programs
	LES	3070	Health and Movement Problems in the Aging Adult
	PSY	2410	Social Psychology
	HPS E	Electives	(selection based on exercise science needs)
	Total		19–21

Health and Safety Education

MINOR IN HEALTH AND SAFETY

The emphasis 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 area of emphasis for students who are obtaining a teaching license in another area or for nurses who are interested in the area of school health nurse.

Health Education Area of Emphasis

CJC	3510	Drug Abuse: Legal Issues and Treatment
HES	2040	Introduction to Nutrition
HPS	2020	Community Health
HPS	2060	Emergency Rescue/First Responder and CPR
HPS	3000	Health Programs in Human Performance and Sport
HPS	3910	Safety Education
PSY	3250	Child Psychology
-0	or-	
PSY	3260	Psychology of Adolescence
Total		21

Leisure Studies

The leisure studies major is intended to prepare students to enter recreation-related jobs that are available at both local and national levels. The major consists of a common core of courses deemed essential for all recreation personnel, and emphasizes fieldwork with various types of recreation, parks, conservation, and other social service agencies.

In conjunction with the core course selections, the student will select one area of emphasis. The areas of emphasis provide the student with specialized knowledge and skills related to particular job functions of the various recreation-related service agencies. The areas of emphasis from which the student may select are therapeutic recreation services and leisure services management. Students must receive a "C" or better in human performance, sports and leisure courses. The curriculum is being revised. Please check with the department.

The following courses are required by the leisure studies program to meet National Recreation and Park Association and the American Association for Leisure and Recreation Accreditation Standards:

Re	equired (Courses	Semester Hours
EC	CO 201	10 Principles of Economics	
HI	S 101	Western Civilization to 1715	
	-or-		
HI			
LE			
PS			
SF	E 171	10 Interpersonal Communications	3
Co	ore Cour	rses	
LE	ES 187		
LE	ES 211		
LE	ES 235	50 Leisure Services for Special Populations	3
LE			
Su	btotal		21–23
	nphasis		
Th	erapeutic	c Recreation	41–43
Le	isure Ser	rvices Management	33–35
AREAS	оғ Емі	PHASIS	
		decreation Services*	
*Extend	ded majo	or—no minor required.	
Se	lect six h	nours from the following:	Semester Hours
HS	SL 150	Activity and Fitness Programs for the Elderly	2
HS	SL 150		
HS			
HS			
HS	and the state of	F	
HS			
Su	btotal		6
Re	equired T	Theory Courses	
BI	O 232	20 Human Anatomy and Physiology II	4
LE	ES 333		
LE	ES 343		
LE	ES 353		
LE			
LE			
PS			
Su	btotal		22
		ours from the following:	
LE	ES 233	[[[[[[[[[[[[[[[[[[[
LE	ES 307	70 Health and Movement Problems in the Aging Adult	3
LE		에서는 경기 경영을 되었다고 아이에게 있는데 아는 살이 있는 목표를 하고 있다. 이 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아이는 아	
LE			
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H		8, 111111111111111111111111111111111111	
H		그에게 모든 그는 사람들은 사람들이 모든 아이를 보고 있다면 하는데 아이들이 되었다면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 아이들이 되었다면 하는데	
SC			
SC			
PS			
F	htotal		11
Ele			11

Leis	Leisure Services Management*							
	Requi	red Cou	rses Semester Hou	rs				
	LES	2150	Maintenance of Leisure Service Facilities and Recreation Equipment	3				
	LES	3830	Facilities and Area Design in Leisure Services					
	LES	4850	Advanced Administration of Leisure Services	3				
	MGT	3000	Organizational Management	3				
	MGT	3530	Human Resources Management	3				
	MKT	3000	Principles of Marketing	3				
	Subtote	al		8				
	Select	8 hours	from the following:					
	HPS	3460	Evaluation and Measurement in Human Performance, Sport and Leisure Studies	3				
	HPS	4660	Legal Liability for Physical Educators, Coaches and Administrators	3				
	HSL	1500	(not more than one course)	2				
	LES	2210	Camping and Outdoor Recreation	3				
	LES	2330	Advocacy, Leisure and the Aging Adult	3				
	LES	4550	Management of Aquatic Resources	3				
	LES	4630	Leisure Service Programs for the Older Adult	3				
	LES	4800	Workshops (variable credit)	-3				
	LES	4810	Grants and Financial Aid Programs in Leisure Services	3				
	Subtote	al		8				
	Electiv	es		7				
	Total .			5				
	*Requi	ires com	pletion of a minor.					
Leis	ure Se	rvices	Minor					
Licis	LES	1870	Introduction to Recreation and Leisure Services	3				
	LES	2110	Leadership Skills and Techniques in Leisure Services					
	LES	2350	Leisure Services for Special Populations.					
	LES	3970	Practicum in Leisure Services.					
	LES	4110	Program Development in Leisure Services					
			1					
			from the following (in consultation with an adviser):					
	LES	2150	Maintenance of Leisure Service Facilities and Recreation Equipment	3				
	LES	2210	Camping and Outdoor Recreation.					
	LES	2330	Advocacy, Leisure and The Aging Adult					
	LES	3330	Introduction to Therapeutic Recreation					
	LES	3830	Facilities and Area Design in Leisure Services					
	LES	4130	Administration of Leisure Services					
	LES	4630	Leisure Service Programs for The Older Adult					
	LES	4810	Grants and Financial Aid Programs in Leisure Services					
	Subtote	al		6				
	Total I	Hours Re	equired for the Minor	21				

HUMAN SERVICES DEPARTMENT

The face of American society today is drastically different than that of our parents and grandparents. As we move into the 21st century, American themes of competitive individualism, economic pressure, social diversity, and community instability are forcing service providers to grapple with human needs in ways that were not imagined in previous generations. The Human Services Department at The Metropolitan State College of Denver focuses on preparing students for careers in which they face the diverse challenges involved in helping individuals, couples, and families meet the challenges of living.

The human services curriculum prepares students to combine knowledge from the social and behavioral sciences with the art of compassion and understanding to assist people in their lives. 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 Health, provides coursework in assessment, diagnosis, prevention, and intervention of psychological and emotional difficulties. Specifically, the training covers counseling and applied psychotherapy for individuals, couples, families, and groups; addiction intervention theory and techniques; domestic violence counseling; and nonprofit administration principles. Particular attention is given to racial, gender, socioeconomic class, and cultural issues in the delivery of human services. Our core curriculum can be supplemented with an emphasis in high risk youth (proposed), drug and alcohol counseling, domestic violence counseling, or nonprofit organization administration.

Learning opportunities are provided through classroom and field placement experiences. Classes are small and are highly interactive, ensuring a more personalized learning experience. In addition, our non-traditional student population brings a wide range of professional and life experience to the classroom. Field instruction experiences at community agencies further reinforce textbook learning and provide networking opportunities for our students.

Classes are taught by highly qualified instructors who have doctoral and master's degrees in such diverse fields as psychology, social work, theology, education, nursing, human communication, nutrition, sociology, and nonprofit organization administration. Instructors in the Human Services Department also have real-life experience as practitioners in a variety of human services. Various state licenses and certifications substantiate their expertise. Committed to teaching excellence, our faculty receive some of the highest student ratings in the college.

Graduates with degrees in human services are qualified to work in a variety of settings, including community health centers, addiction centers, nonprofit public 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. Many of our graduates go on to complete graduate education in psychology, theology, social work, addiction studies, public administration, or other areas, including business and law.

Regardless of individual career objectives, however, people who major in Human Services are people who want to help others. A bachelor of science degree in Human Services prepares students to become professionals in the art and science of helping others. Students combine the knowledge and experience gained in our program with their own sense of commitment and compassion to make positive contributions to others' lives.

Human Services Major for Bachelor of Science

The student must meet the college's graduation agreement for a bachelor's degree: complete the General Studies requirements of the college and the human services professional core courses listed below. Students who major in human services are not required to complete a minor.

Requi	red Cou	irses	Semester Hours
Core	Courses	for the Major	
HSP	1010	Introduction to Human Services and Community Resources	4
HSP	1040	Applied Behavior Analysis	4
HSP	2020	Small Group Dynamics: Theory and Experience	4
HSP	2030	Theory and Practice of Counseling	4
HSP	2040	Family Function, Dysfunction and Therapy	4
HSP	2050	Human Services Practicum I	8
HSP	2060	Human Services Practicum II	8
HSP	3330	Ethical and Professional Issues in Human Services	2
HSP	4320	Psychopathology and the Mental Health Clinician	4
HSP	4790	Professional Internship	12
Total .			54
Electi	ves with	in Human Services Department (approval of adviser required)	
Select	16 hour	rs from the following:	
HSP	1110	Introduction to Developmental Disabilities	4
HSP	1470	Addictive Experiences: Sex, Drugs, Rock and Roll	3
HSP	2010	Principles of Nonprofit Organization Administration	4
HSP	2110	Individual Programming for the Developmentally Disabled	
HSP	3210	Organizational Stability of Nonprofits	4
HSP	3220	Conflict Resolution and Decision Making	2
HSP	3230	High Risk and Offender Youth	4
HSP	3410	Alcoholism Family Counseling: Advanced Topics	3
HSP	3430	Addictive Behaviors	
HSP	3450	Crisis Intervention and Legal Issues	4
HSP	3490*	Multicultural Issues in Human Services	
HSP	3500	Domestic Violence: Patterns of Relationship Abuse	3
HSP	3600	Domestic Violence: Perpetrators of Abuse	2
HSP	3610	Financial Accountability and Organizational Control in Nonprofit Or	
HSP	3650	Treatment of Adult Survivors	
HSP	3750	Holistic Health and High-Level Wellness	
HSP	4020	Fundraising and Proposal Writing for Nonprofit Organizations	4

HSP	4200	Child Abuse and Neglect
HSP	4250	Counseling the Gay or Lesbian Client
HSP	4280	Gender Issues in Treatment and Recovery
HSP	4290	PTSD Counseling
HSP	4310	Human Resource Development in Nonprofit Organizations
HSP	4360	Advanced Intervention Techniques
HSP	4490	Contemporary Issues in Human Services: Variable Topics
HSP	4500	Legal Liability in the Helping Professions
HSP	4540	Youth, Drugs and Gangs
HSP	4650	Group Facilitation and Group Counseling
HSP	4680	Supervisory Techniques for Health Care4
Electiv	es in Hu	ıman Services Total
Total I	Hours for	r Major
Electiv	es outsi	de the Human Services Department
Genera	al Studie	s33
Total f	for Grad	uation

Nonprofit Organization Administration Area of Emphasis

The nonprofit organization administration emphasis 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. In today's competitive world of nonprofit organizations with limited resources, nonprofit managers must have solid administrative knowledge and skills if their organizations are to succeed.

The curriculum of the nonprofit administrative emphasis area consists of six courses, a single field practicum, and a professional internship for a total of 44 credit hours. The nonprofit organization administration curriculum, combined with the Human Services core curriculum, totals 70 hours.

Requi	red Co	urses Semester H	lours
HSP	1010	Introduction to Human Services and Community Resources	4
HSP	1040	Applied Behavior Analysis	
HSP	2010	Principles of Nonprofit Organization Administration	4
HSP	2020	Small Group Dynamics: Theory and Experience	4
HSP	2030	Theory and Practice of Counseling	4
HSP	2040	Family Function, Dysfunction and Therapy	
HSP	2050	Human Services Practicum I	8
HSP	3210	Organizational Stability of Nonprofits	4
HSP	3330	Ethical and Professional Issues in Human Services	2
HSP	3610	Financial Accountability and Organizational Control in Nonprofit Organizations .	4
HSP	4020	Fundraising and Proposal Writing for Nonprofit Organizations	4
HSP	4310	Human Resource Development in Nonprofit Organizations	4
HSP	4320	Psychopathology and the Mental Health Clinician	4
HSP	4680	Supervisory Techniques for Health Care	4
HSP	4790	Professional Internship	12
Total.			70
Electiv	ves		17
Genera	al Studie	es	33
Total j	for Grad	duation	. 120

Domestic Violence Counseling Emphasis

Domestic violence is a growing societal problem that may be addressed through competent counseling by professionals trained to understand the dynamics involved. An emphasis area in domestic violence counseling provides the student with knowledge and skills essential for working both with perpetrators and victims of abuse. This specialty track complements the broad knowledge base gained through the core classes in human services.

The courses included in this emphasis area 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 by the agency of employment for certification as a provider of domestic violence counseling. Included in the emphasis area 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.

^{*}Meets the Multicultural requirement for graduation.

Requi	Required Core Courses Semester Hours					
HSP	1010	Introduction to Human Services and Community Resources	4			
HSP	1040	Applied Behavior Analysis	4			
HSP	2020	Small Group Dynamics: Theory and Experience	4			
HSP	2030	Theory and Practice of Counseling	4			
HSP	2040	Family Function, Dysfunction and Therapy				
HSP	2050	Human Services Practicum I	8			
HSP	2060	Human Services Practicum II	8			
HSP	3330	Ethical and Professional Issues in Human Services				
HSP	3490*	Multicultural Issues in Human Services	4			
HSP	4320	Psychopathology and the Mental Health Clinician	4			
HSP	4790	Professional Internship	12			
Total.			58			
Cours	es for E	mphasis Area				
HSP	1060	Pharmacology of Drugs and Alcohol	3			
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	3650	Treatment of Adult Survivors				
HSP	4280	Gender Issues in Treatment and Recovery				
HSP	4500	Legal Liabilities in the Helping Professions				
Total.						
*Meet		lticultural requirement for graduation.				
Electiv						
		partment—select 8 hours from the following:				
HSP	3220	Conflict Resolution and Decision Making	2			
HSP	3430	Addictive Behaviors				
HSP	4200	Child Abuse and Neglect				
HSP	4250	Counseling the Gay or Lesbian Client.				
HSP	4290	PTSD Counseling.				
HSP	4360	Advanced Intervention Techniques.				
HSP	4540	Youth, Drugs and Gangs.				
CONTRACTOR OF THE PARTY OF THE						
		he 120 semester hours required for the degree, five hours of additi				
		se hours may be taken either inside or outside the Human Serv	ices Department.			
	00	ed electives from other departments: Human Development				
PSY	2210	Human Development	3			
PSY	2850	Psychology of Sexuality				
WMS	1001	Introduction: Women in Transition				
WMS	2340	Stress Management				
WMS		Women and the Law				
		200,000,000,000,000,000,000,000,000,000				
		s Requirements				
Total for Graduation						

HUMAN SERVICES MINOR

The minor consists of a minimum of 24 semester hours, 8 of which must be upper-division. The student must present a proposal of selected courses from the human services curriculum to the chair for consideration and approval.

THE CENTER FOR ADDICTION STUDIES

The Center for Addiction Studies offers two programs:

- counselor training program in drugs, alcohol, and addictive behavior counseling (38 hours of prescribed coursework)
- bachelor of science degree in human services with emphasis on drug, alcohol, and addictive behaviors

Each student in the center has an individually tailored program leading to the college degree and state certification as a drug/alcohol counselor, as well as a counselor for other addictive behaviors such as smoking, gambling, and food disorders.

In addition to classroom instruction, the drug, alcohol, and addictive behavior counselor training program uses metro Denver area facilities for experiential training of students. Many course offerings are outreach or community-oriented. Graduates attain understanding, skills, and attitudes necessary to function as professional addiction counselors. Individuals interested in these programs should contact the center for further information at (303) 556-2951.

Emph	asis Cou	ırses	Semester Hours
(Includ	des HSP	core and Drug/Alcohol Counselor Training Program courses)	
HSP	1010	Introduction to Human Services and Community Resources	4
HSP	1040*	Applied Behavior Analysis	4
HSP	1060*	Pharmacology of Drugs and Alcohol	3
HSP	2020*	Small Group Dynamics: Theory and Experience	4
HSP	2030*	Theory and Practice of Counseling	4
HSP	2040*	Family Function, Dysfunction and Therapy	
HSP	2480*	Addictions Practicum I	6
HSP	2490*	Addictions Practicum II	6
HSP	3330	Ethical and Professional Issues in Human Services	
HSP	3430*	Addictive Behaviors	
HSP	3470*	Counseling the Substance Abuser	4
HSP	3580	The Resistive Client	1
HSP	4320	Psychopathology and the Mental Health Clinician	4
HSP	4790	Professional Internship	
Total F	lours for	r Training Program	
		r Emphasis	
*Denoi	tes 38 ho	ours drug/alcohol counselor training program.	
		in the Human Services Department (approval of adviser required)	
		s from the following:	
HSP	1110	Introduction to Developmental Disabilities	4
HSP	2010	Principles of Nonprofit Organization Administration	
HSP	2110	Individual Programming for the Developmentally Disabled	
HSP	3210	Organizational Stability of Nonprofits.	
HSP	3220	Conflict Resolution and Decision Making.	
HSP	3230	High Risk and Offender Youth	
HSP	3410	Alcoholism Family Counseling: Advanced Topics	
HSP	3450	Crisis Intervention and Legal Issues	
HSP	3490*	Multicultural Issues in Human Services	4
HSP	3500	Domestic Violence: Patterns of Relationship Abuse	
HSP	3600	Domestic Violence: Perpetrators of Abuse	2
HSP	3610	Financial Accountability and Organizational Control in Nonprofit Organizational	anizations 4
HSP	3650	Treatment of Adult Survivors	1
HSP	3750	Holistic Health and High-Level Wellness	
HSP	4020	Fundraising and Proposal Writing for Nonprofit Organizations	4
HSP	4200	Child Abuse and Neglect	
HSP	4250	Counseling the Gay or Lesbian Client	
HSP	4280	Gender Issues in Treatment and Recovery	1
HSP	4290	PTSD Counseling	
HSP	4310	Human Resource Development in Nonprofit Organizations	
HSP	4360	Advanced Intervention Techniques	4
HSP	4490	Contemporary Issues in Human Services	
HSP	4500	Legal Liability in the Helping Professions	1
HSP	4540	Youth, Drugs and Gangs	2
HSP	4650	Group Facilitation and Group Counseling	4
HSP	4680	Supervisory Techniques for Health Care	4
		de the Human Services Department	
		s	
		uation	
		0, Addictive Experiences: Sex, Drugs, Rock and Roll is for non-Drug/Alc	cohol majors and
will no	count a	as an elective within the Human Services Department.	

*Meets the Multicultural requirement for graduation.

CASE MANAGEMENT PROGRAM

The program in case management is jointly administered and offered by the Human Services and Sociology Departments. The purpose of the program is to train individuals interested in performing the functions of a case manager.

Requi	Required Courses		
HSP	1110	Introduction to Developmental Disabilities	4
		Individual Programming for the Developmentally Disabled	
SWK	3020	Case Management in Social Welfare Services	4
SWK	3780	Social Welfare Policy	3
Total.			14

Industrial and Technical Studies

The industrial and technical studies program offers the following majors:

Bachelor of Science:

Industrial and Technical Studies (ITS)
Industrial Arts Teaching Area of Emphasis

Business Area of Emphasis Technical and Industrial Administration (TIA)

Bachelor of Arts:

Industrial Design (IND)

Minors:

Industrial Arts Teaching Area of Emphasis

General Studies

Students must consult with a faculty adviser regarding General Studies requirements.

Credit by Examination

Often students selecting the industrial and technical studies major have extensive experience in business, industry, or the military, which parallels the content of some of the courses. To receive credit for such experience, the student must contact the program coordinator for evaluation.

Industrial and Technical Studies Major for Bachelor of Science Degree

In order to be awarded the bachelor of science degree in industrial and technical studies, the student must meet the college's general specifications for the bachelor's degree and must complete the courses required for one of the two areas of emphasis (industrial arts teaching or business) listed below. No minor is required.

Industrial Arts Teaching Area of Emphasis

Graduates meet all the state requirements for a secondary teaching license and are qualified to teach industrial arts in both middle and senior high schools. Courses are also offered that are designed for those already teaching and desiring to further their professional growth.

Required Courses			Semester Hours		
	Gener	ral Studie	es		
	ITS	1010	Introduction to Woodworking	4	
	ITS	1030	Finishing Materials and Processes	2	
	ITS	1130	Introduction to Plastics	3	
	ITS	1200	Introduction to General Metals: Cold Metals		
	-	or-			
	ITS	1220	Introduction to General Metals: Hot Metals	2	
	ITS	1430	Introduction to Industrial Drawing	2	
	ITS	1500	Introduction to Graphic Arts I		
	-	or-	뭐 뭐 그는 이 이번 맛있다면 가게하다고 되었다. 그 그렇게 그 없다.		
	ITS	1510	Introduction to Graphic Arts II	2	
	ITS	1660	Introduction to Power	3	
	Subto	tal		18	
	Choo	se two fi	rom the following three:		
	ITS	1710		2	
	ITS	1720	Consumer Electricity/Electronics: Control Systems		
	ITS	1750	Consumer Electricity/Electronics: Residential Systems		
	Subto	tal	·		

	ITS	2690	Alternate Energy and Transportation
	ITS	2810	Technology, Society and You
	ITS	2830	Manufacturing Organization and Processes
	ITS	3410	Computer-Aided Drafting for Industry
	ITS	3800	Industrial Safety and Production4
	ITS	4810	Curriculum and Methods of Teaching Industrial Arts
	ITS	4830	Organization and Administration of Industrial Arts
	ITS	4840	Emerging Technologies
	ITS	4860	Research in Industrial Technology
	ITS	Upper-	division Electives (two different areas)
	Subtota	l	
	Teachi	ng Lice	nsure Requirements
	EDS	3110	Process of Learning in Multicultural Urban Secondary Schools
	EDS	3120	Field Experiences in Multicultural Urban Secondary Schools
	EDS	3200	Educational Psychology Applied to Teaching
	EDS	3210	Secondary School Curriculum and Classroom Management
	EDS	3220	Field Experiences in Teaching, Materials Construction, and Classroom Management 3
	EDS	4290	Student Teaching and Seminar: Secondary
	EDT	3610	Introduction to Educational Technology
	RDG	3280	Teaching of Reading and Writing in the Content Areas
	SED	3600	The Exceptional Learner in the Classroom
	Subtota	1	
	Total		
D!	4.		Emphasia
			Emphasis
			siness emphasis prepares students to enter business and industry in a variety of capac-
			acturing, management, and small-business operation provide diverse opportunities
			hin this emphasis, specialty areas are available in drafting, electricity/electronics,
graph	nics, m	etals, a	nd woods.
Indu	strial a	and Te	chnical Studies Core—Non-Teaching
The f	followi	ng core	e courses are required for all specialty areas within the business emphasis:
The			
			s
	ITS	1010	Introduction to Woodworking
	ITS	1030	Finishing Materials and Processes
	ITS	1130	Introduction to Plastics
	ITS	1200	Introduction to General Metals: Cold Metals
	ITS	1220	Introduction to General Metals: Hot Metals
	ITS	1430	Introduction to Industrial Drawing
	ITS	1500	Introduction to Graphic Arts I
	ITS ITS	1510	Introduction to Graphic Arts II
		1660	Introduction to Power
	Subtota		
			om the following three:
	ITS	1710	Consumer Electricity/Electronics: Communication Systems
	ITS	1720	Consumer Electricity/Electronics: Control Systems
	ITS		Consumer Electricity/Electronics: Residential Systems
	Subtota	$l \dots \dots$	8
	ITS	2690	Alternate Energy and Transportation
	ITS	2810	Technology, Society, and You
	ITS	2830	Manufacturing Organization and Processes
	ITS	3410	Computer Aided Drafting for Industry
	ITS	3800	Industrial Safety and Production
	ITS	4860	Research in Industrial Technology
		4960	Industrial Internship
Cata		I/on NA	athematics for Electricity/Electronics Specialty
	MTH	1110	College Algebra

178 SCHOOL OF PROFESSIONAL STUDIES

B	usiness (Core	
	Choos	se from	the following:
	ACC	2010	Principles of Accounting I
	ACC	3080	Small Business Taxation
	ECO	2010	Principles of Economics—Macro
	ITS	3700	Industrial Safety
	ITS	3710	Developments in Industrial and Technical Processes
	ITS	3720	Characteristics of Industrial and Technical Personnel Selection,
	113	3720	
	TTTC	4720	Supervision, and Evaluation
	ITS	4730	Assessment of Trade and Technical Enterprises
	ITS	4740	Organizational Structures for Technical Enterprises
	MGT	2210	Legal Environment of Business I
	MGT	2500	Small Business Management
	MGT	3000	Organizational Management
	MGT	3210	Commercial and Corporate Law
	MKT	3000	Principles of Marketing
	Total.		
C.	DE CT LT TO	. Ann	
	PECIALT	Y AREA	AS
D	rafting		
	CEN	2100	Structural Drawing
	ITS	3410	Computer Aided Drafting for Industry I
	ITS	3500	Advanced Graphic Arts
	ITS	4410	Computer Aided Drafting for Industry II
	ITS	4870	Special Studies in Industrial and Technical Studies5
	SUR	2620	Survey Drafting
F	lectricity	Flocts	ronics
L	EET	2140	Electronics I
	EET	2320	
			Digital Circuits I
	EET	3330	Digital Circuits II
	EET	3360	Microprocessors
	ITS	4870	Special Studies in Electronics
G	raphics		
	ITS	2550	Introduction to Photography
	ITS	3410	Computer-Aided Drafting for Industry I
	ITS	3500	Advanced Graphic Arts
	ITS	4870	Special Studies in Industrial and Technical Studies
	TEI	200	Airbrush I (CCD Course)
	17 100	200	Thiorasti (CCD Coats)
IVI	letals	****	그 그래프 그는 그는 얼마나 아이를 가게 되었다.
	ITS	2310	Art Metal, Silversmith and Lapidary2
	ITS	3210	Advanced Metalworking
	ITS	3410	Computer-Aided Drafting for Industry I
	ITS	4200	Welding Technology
	ITS	4870	Special Studies in Industrial and Technical Studies
W	ood		
	ITS	3410	Computer-Aided Drafting for Industry I
	ITS	4030	Advanced Wood Processes
	ITS	4870	Special Studies in Industrial and Technical Studies
		ves	
	Total		
IN	DUSTRIA	L AND	TECHNICAL STUDIES MINOR
T	nis minor	must b	be approved in writing by the program coordinator. The coordinator must approve th
			will take into account the student's previous experience and occupational goals.
C.,		0.00	사용병사님이 되어 되었다. 이 아들이 작사에게 되는 것이 되어 보다 하는데 하는데 가게 사용하면 이 가득이 하셨다.
In	idustrial	Arts 1	Teaching Area of Emphasis
	Requi	red Co	urses
	ITS	3800	Industrial Safety and Production
	ITS	4810	Curriculum and Methods of Teaching Industrial Arts
	ITS	4830	Organization and Administration of Industrial Arts
	ITS		r-division Elective
	ITS		-division Elective
			22
	. viul .		

Technical and Industrial Administration

Note: This program may be phased out. For more information, see an adviser in the dean's office.

The technical and industrial administration major builds on the technical expertise attained through completion of an associate of applied science, associate of science, or associate of arts degree with specialties from within the field of trade and industry or technical education. This major provides students with an increased opportunity for career mobility and advancement in jobs related to, or associated with, their technical background.

Students who have met the General Studies requirements should be able to complete the bachelor of science degree in four to five semesters. Technical credits earned in the associate degree will be accepted and applied toward requirements for a minor. Students entering this program must possess an associate degree and complete the following requirements.

TECHNICAL AND INDUSTRIAL ADMINISTRATION

Major for Bachelor of Science

Requir	red Cou	rses Semester Hours	
Genera	l Studie	33	
Techni	cal and	Industrial Administration	
ACC	2010	Principles of Accounting I	
ITS	3700	Industrial Safety	
ITS	3710	Development in Industrial and Technical Processes	
ITS	3720	Characteristics of Industrial and Technical Personnel Selection,	
		Supervision and Evaluation	
ITS	4730	Assessment of Trade and Technical Enterprises	
ITS	4740	Organizational Structures for Technical Enterprises	
MGT	3000	Organizational Management	
Select	1-12 se	nester hours	
ITS	4710	Trade and Technical Practicum	
ITS	4870	Special Studies in Industrial and Technical Studies	
ITS	4960	Professional Internship	
Flootis	os to os	mplete 30 credit hour major	
ACC	3080	Small Business Taxation	
CMS	2010	Principles of Information Systems	
FIN	2250	Personal Money Management	
FIN	3420	Principles of Insurance	
MGT	2500	Small Business Management	
MKT	2000	Business and Interpersonal Communications	
MKT	3000	Principles of Marketing	
MKT	3010	Marketing Research	
MKT	3100	Retail Marketing	
COM		division Courses	
ITS		division Courses	
113	Opper-	division Courses	

MINOR

Four upper-division credit hours must be completed in addition to technical credits transferred from an associate degree.

These courses must be selected in consultation with and approve	ed by an ITS program adviser 4
Associate Degree Credits	
Total	

80 SCHOOL OF PROFESSIONAL STUDIES

Industrial Design

The industrial design major is a program offered through the industrial and technical studies program leading to a bachelor of arts degree.

INDUSTRIAL DESIGN MAJOR FOR BACHELOR OF ARTS

No MINOR REQUIRED

	Required Courses Semester Hours						
Genera	General Studies (*PSY 1001 required; prerequisite for PSY 4410)						
ITS	1010	Introduction to Woodworking					
ITS	1030	Finishing Materials and Processes					
ART	1100	Basic Drawing I					
ITS	1130	Introduction to Plastics					
ART	1200	Design Processes and Concepts I					
ITS	1200	Introduction to General Metals: Cold Metals					
ART	1210	Design Processes and Concepts II					
ITS	1220	Introduction to General Metals: Hot Metals					
ITS	1430	Introduction to Industrial Drawing					
ART	2010	Survey of Modern Art: Impressionism through Abstract Expressionism					
ART	2400	Beginning Advertising Design					
ITS	2450	Beginning Industrial Design					
ITS	2550	Introduction to Photography					
ITS	3410	Computer-Aided Drafting for Industry					
ITS	3450	Intermediate Industrial Design					
ITS	3480	Industrial Design Model Making					
ITS	3800	Industrial Safety and Production					
ITS	4030	Advanced Wood Processes					
PSY	4410	Human Factors Engineering					
ITS	4450	Advanced Industrial Design I					
ITS	4460	Advanced Industrial Design II					
ITS	4540	Advanced Design Concept Visualization					
ITS	4960	Professional Industrial Internship					
Recon	nmende	d Electives					
ITS	1470	Perspective Drawing					
ITS	2830	Manufacturing Organization and Processes					
ITS	3660	Computer Aided Industrial Design					
ITS	4090	Advanced Modelmaking Fabrication Techniques					
Other	Other Electives						
Total .							

READING DEPARTMENT

The Reading Department offers two outstanding literacy programs. One program provides for the refinement of critical and analytical reading skills that enable college students to enhance the quality of their undergraduate education. RDG 1510, Cognitive Strategies for Analytical Reading, is designed as a college-level reading course that satisfies a General Studies Level I Communications requirement. RDG 3060, Critical Reading/Thinking, provides further practice in the employment of cognitive strategies to discover fallacies, recognize obstacles to critical thinking, and judge the validity of expository writing. This course satisfies a General Studies Level II Arts and Letters requirement.

The second program is a dynamic minor in reading that prepares students for careers in business, industry, government, and education as instructional leaders in literacy programs. The minor includes knowledge of the reading process, factors influencing emergent literacy, preparation and presentation of reading lessons, development of instructional materials, identification of reading disability correlates, assessment and interpretation of test results, and a closely supervised remedial reading tutorial experience. Students planning to complete teacher licensure requirements at all levels are encouraged to elect this minor. Note: A letter grade of at least a "C" must be attained in each of the courses in the reading minor.

Reading Minor

Required	Required Courses Semester Hours							
Complete	Complete one of the following courses:							
RDG 31	20* Developing Print Literacy: Preschool-Grade 3	4						
RDG 31	30* Teaching Reading in the Elementary School K-6							
RDG 31	50* Middle School Instructional Reading/Writing Strategies							
RDG 32	280* Teaching Reading and Writing in the Content Areas	4						
Subtotal .		4						
To be cor	npleted by all reading minors:							
RDG 31	40 Whole Language Integration Across the Curriculum							
RDG 36	700 Practicum in Teaching Reading							
RDG 42	250 Literacy Assessment: Theory and Practice	4						
RDG 43	340 Development of Reading/Writing Instructional Materials and I	Procedures 2						
RDG 46	500 Practicum in Literacy Enhancement							
Subtotal .		, 14						
Total		18						
*RDG 312	20 is required for early childhood education licensure.							
	30 is required for elementary education licensure.							
	50 is required for middle school endorsement.							
*RDG 328	80 is required for secondary education licensure.							
Highly Ro	ecommended							
RDG 31	60 Strategies for Enhancing Adult Literacy	4						
RDG 35	Teaching Reading to Non-English Speakers							
RDG 35	Reading in the Bilingual/Bicultural Classroom (competency in	Spanish required) 3						
RDG 45	Language Arts and the Classroom Computer							

TECHNICAL COMMUNICATIONS DEPARTMENT

The Technical Communications Department offers three areas of emphasis and a technical communications minor. The three areas of emphasis are technical writing and editing, industrial communications, and technical media. Each area of emphasis offers training in one or more communications areas that are most in demand by industry and government. Technical writing and editing prepares an individual to write, edit, and publish the wide variety of reports, manuals, and other technical or lay publications produced by industry and government. The industrial communications emphasis is designed for the person who desires to manage the flow of information within a company, government agency, or between industries and agencies. The technical media emphasis meets two needs of industry and government: people prepared to design and implement internal training programs, and people seeking careers to provide technical information through visual media.

The technical communications minor provides a general background in preparing technical information designed to meet the minimal needs of industry and government, with the opportunity to emphasize 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.

The program welcomes students from the community and other areas of the college whose professional or academic work will benefit from one or more of the program offerings. Students enrolling in one of the major areas of emphasis or the minor must confer with a program adviser because all degree plans are tailored to the career goals of the individual student.

Computerized document processing ability is required of all students majoring or minoring in the technical communications programs. Students can meet this requirement in one of three ways:

- Students can provide documentary evidence of a previous satisfactory completion of an academic or industrial training course in computer literacy and document processing at the time they declare their major or minor.
- · Students can enroll in an approved MSCD course in CMS or CSI in the semester following the declaration of their major or minor.
- Students can complete a skills test administered by the program during the semester they declare their major or minor.

All students majoring in the technical communications program must participate in program assessment. See the department for details.

Required Core

TECHNICAL COMMUNICATIONS MAJOR FOR BACHELOR OF ARTS

Technical Writing and Editing Area of Emphasis

This communications area of emphasis provides the student with both the theory and production practices of technical writing and editing used by industry and government. It includes coursework in the writing, editing, design, and production of technical reports, proposals, and manuals in addition to professional experience, hands-on practice with computers, and the production of software instruction manuals.

Semester Hours

Kequi	rea Cor	Semester Hours	
COM	2720	Introduction to Communication Concepts and Systems	
COM	3780	Communications Law	
Total.		6	
Requi	red Are	a of Emphasis Courses	
		nours from the following:	
COM	2430	Introduction to Technical Media	
COM	2460	Presentation Graphics	
COM	2610	Introduction to Technical Writing	
COM	2990	Internship	
COM	3310	International Technical Communications	
COM	3320	Semiotics of International Technical Communications	
COM	3330	Technical Writing for Translation	
COM	3440	Corporate Scriptwriting for Film and Television	
COM	3470	Writing for Corporate Audio	
COM	3610	Advanced Technical Writing	
COM	3620	Industrial Editing and Production	
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	4630	Costing and Planning Technical Publications	
COM	4760	Advanced Internship in Technical Communications	
COM	4790*	Senior Seminar in Technical Communications	
COM	4800	Workshop3	
ITS	1510	Introduction to Graphic Arts II	
ITS	3500	Advanced Graphic Arts	
Total.		24	
*If use	d as the	capstone course, this course cannot be used as an emphasis course or a required elective.	
Electiv	ves		
Twelve	e Hours	of Electives (from any of the areas of emphasis and/or courses approved by an adviser) . 12	
Total.			

Industrial Communications Area of Emphasis

This communications area of emphasis prepares the student for a career in managing the flow of information within and among technical and industrial communications networks and systems. It includes practical experience and a theoretical understanding of industrial communication, the culture that exists within corporations, and various methodologies for the dissemination of information within industries and governmental agencies.

Requir	ed Cor	re	S	em	est	er	Ho	urs
COM	2720	Introduction to Communication Concepts and Systems						3
COM	3780	Communications Law						3
Total.								6
Requir	ed Are	ea of Emphasis Courses						
Twenty	y-four	hours from the following:						
COM	2430	Introduction to Technical Media						. 3
COM	2460	Presentation Graphics					٠	3
COM	2610	Introduction to Technical Writing						3
COM	2990	Internship						3
COM	3310	International Technical Communications			,			. 3
COM	3330	Technical Writing for Translation						. 3

COM	3510	Industrial Communication				
COM	3520	Communication of Power and Authority				
COM	3530	Corporate Cultures				
COM	3560	Variable Topics in Industrial Communicating				
COM	4760	Advanced Internship in Technical Communications				
COM	4790*	Senior Seminar in Technical Communications				
COM	4800	Workshop				
MGT	3550	Manufacturing and Service Management				
MGT	4610	Labor/Employee Relations				
PSY	3450	Industrial Psychology				
PSY	4410	Human Factors Engineering				
SOC	3160	Industry, Work and Occupations				
SPE	3100	Business and Professional Speaking				
SPE	3130	Conference Leadership				
Total.						
*If used	d as the	capstone course, this course cannot be used as an emphasis course or a required elective.				
Electiv	es					
Twelve	Twelve hours of electives from any of the areas of emphasis and/or courses approved by an adviser 12					
		42				
hnical	Media	Area of Emphasis				

Tec

This communications area of emphasis provides the student with the theoretical and practical experience required to design, write, and produce multi-image, multimedia, and videotape productions for nonbroadcast use in industry, government, and other large organizations. Such productions are frequently used for training, image creation, and technical information dissemination.

Requir	red Cor	e Courses Semester Hours
COM	2720	Introduction to Communication Concepts and Systems
COM		Communications Law
Total.		
Requir	red Are	a of Emphasis Courses
		s from the following (courses with an asterisk are required):
COM	2410	Basic Multi-Image Production
COM	2420*	Basic Corporate Videotape Production
COM	2430*	Introduction to Technical Media
COM	2450*	Basic Multimedia Production
COM	2460	Presentation Graphics
COM	3350	International Technical Media
COM	3410	Advanced Multi-Image Production
COM	3420	Intermediate Videotape Production
COM	3440*	Corporate Scriptwriting for Film and Television
COM	3450	Intermediate Multimedia Production
COM	3470	Writing for Corporate Audio
COM	4420	Advanced Videotape Production
COM	4440	Advanced Corporate Scriptwriting
COM	4760	Advanced Internship in Technical Communications
COM	4800	Workshop
Total.		
Gener	al Electi	ives in Technical Communications
Nine h	ours fr	om courses not taken to fulfill hours in the emphasis area electives or choose from
the fol	lowing (or other courses as approved by the student's adviser:
COM	2610	Introduction to Technical Writing
COM	3310	International Technical Communications
COM	3330	Technical Writing for Translation
COM	3510	Industrial Communication
COM	3520	Communication of Power and Authority
COM	3530	Corporate Cultures
COM	3560	Variable Topics in Industrial Communication
COM	3610	Advanced Technical Writing

184 SCHOOL OF PROFESSIONAL STUDIES

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 Technical Communication	
COM	4630	Costing and Planning Technical Publications	
COM	4760	Advanced Internship in Technical Communications	Ć
Total.		······································	
Genera	al Stud	ies Level 3 Course	
COM	4410	Budgeting and Planning for A-V	
-01	r-	강에게 하지 않아요. 여자 살이 그는 그 모으는 이번 맛 없게 하는 것이 되었다.	
COM			
Subtoto	al	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Total.		4	

Technical Communications Minor

The technical communications 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 communications program to provide an overview of the discipline.

Each o	of the fo	ollowing courses:
COM	2430	Introduction to Technical Media
COM	2610	Introduction to Technical Writing
COM	2720	Introduction to Communication Concepts and Systems
Subtot	al	9
Five o	f the fol	llowing courses:
COM	2410	Basic Multi-Image Production
COM	2420	Basic Corporate Videotape Production
COM	2450	Basic Multimedia Production
COM	2460	Presentation Graphics
COM	3310	International Technical Communications
COM	3330	Technical Writing for Translation
COM	3410	Advanced Multi-Image Production
COM	3420	Intermediate Corporate Videotape Production
COM	3440	Corporate Scriptwriting for Film and Television
COM	3450	Intermediate Multimedia Production
COM	3470	Writing for Corporate Audio
COM	3510	Industrial Communication
COM	3520	Communication of Power and Authority
COM	3530	Corporate Cultures
COM	3560	Variable Topics in Industrial Communicating
COM	3610	Advanced Technical Writing
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 Communications
COM	3780	Communications Law
COM	4410	Budgeting and Planning for Audio-Visual Productions
COM	4420	Advanced Videotape Production
COM	4630	Costing and Planning Technical Publications
COM	4760	Advanced Internship in Technical Communications
COM	4790	Senior Seminar in Technical Communications
Subtote	al	

AIR FORCE ROTC PROGRAM

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 AFROTC cadets must attend LLAB (one and one-half hours per week). The laboratory involves a study of Air Force customs and courtesies, drills and ceremonies, career opportunities, and the life and work of an Air Force junior officer.

Other AFROTC Programs

Other programs are frequently available based on current Air Force needs. Any AFROTC staff member in Boulder at (303) 492-8351 can discuss the best alternatives. Interested students should make initial contact as early as possible because selection is on a competitive basis. There is no obligation until a formal contract is entered.

Air Force College Scholarship Program

Students participating in Air Force ROTC may be eligible to compete for Air Force ROTC college scholarships. Students selected for this program are placed on scholarships that pay tuition, book allowances, nonrefundable educational fees, and a subsistence of \$150 per month, tax-free. All cadets enrolled in the POC receive a \$150 per month subsistence during the regular academic year. Two- and three-year scholarships are available to both men and women in all academic disciplines. In addition, there are special programs for minority students.

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 are worth 16 credit hours toward graduation.

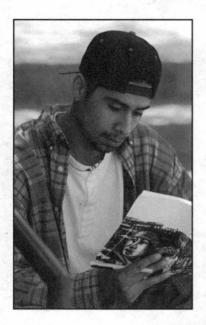
Registration

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) Program

Students desiring information about Army ROTC classes or scholarships should contact the Department of Military Science at the University of Colorado at Boulder at (303) 492-6495.

186 SCHOOL OF PROFESSIONAL STUDIES



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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 1100-5 Principles of Chemistry (4 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course is a study of the fundamentals of chemistry including both theoretical and laboratory principles. 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 Course—Level II, Natural Science)

The first three letters, called the course subject code (Banner), represent the area of study or discipline, e.g., CHE represents chemistry. The course number follows the course subject code, e.g., 1100. The first digit in a four-digit course number designates the level of instruction. Only courses numbered 1000 or above will be included in credits toward a degree. Courses with numbers up to and including 1999 are primarily for freshmen, 2000 through 2999 primarily for sophomores, 3000 through 3999 primarily for juniors, and 4000 through 4999 primarily for seniors. In general, students should not take courses above the level of their class (based upon semester hours earned), but they may do so at one level above if they have the specified prerequisites. In special cases, students may be permitted to take courses more than one level above that designated for their class if they obtain the permission of their adviser and of the faculty member teaching the course and if they meet the prerequisite requirements.

Following each course number is the semester hours of credit. As an example, CHE 1100-5 is a freshman-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 indicating the division of time between lecture, laboratory, field experience, or—in music—performance. The first number represents the number of lecture hours each week; the second number indicates the number of laboratory, shop, or field hours; and the third (in music) represents performance hours. For example, CHE 1100-5 Principles of Chemistry I (4 + 2) has four hours of lecture and two hours of laboratory each week. Lecture hours equate one hour per week of contact to one credit hour; laboratory experience equates two hours of contact per week to one credit hour. Therefore, CHE 1100-5 would earn five hours of credit—four for lecture and one for laboratory work.

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 published in the *Class Schedule*, which is printed before of the beginning of each semester and is available to all students.

Beginning with this *Catalog*, course numbers are now four digits instead of three. For the majority of courses, a zero was added to the end of the course number, e.g., CHE 110 is now CHE 1100. The following courses are exceptions to this and should be noted:

Old Number	New Number	Course Title
PHY 231	PHY 2311	General Physics I
PHY 232	PHY 2321	General Physics Lab I
PHY 233	PHY 2331	General Physics II
PHY 234	PHY 2341	General Physics Lab II
PHY 281	PHY 2811	Modern Physics
PHY 308	PHY 3082	Energy and Environment
PHY 321	PHY 3211	Analytical Mechanics
PHY 333	PHY 3331	Electricity and Magnetism
PHY 341	PHY 3411	Thermal Physics
PHY 371	PHY 3711	Physics Laboratory I
PHY 372	PHY 3721	Physics Laboratory II
PHY 471	PHY 4711	Advanced Physics Laboratory I
PHY 472	PHY 4721	Advanced Physics Laboratory II
PSY 101	PSY 1001	Introductory Psychology
WMS 101	WMS 1001	Introduction: Woman in Transition

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 course 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

The omnibus courses listed below are designed to provide flexible learning opportunities. Topics courses, seminars, and workshops deal with novel subjects and current problems. Independent study allows students to investigate problems of special interest. Supervised field study and internships, conducted cooperatively with business, industry, government, and other agencies, provide practical on-the-job learning opportunities. Content of these courses should not duplicate that of regular courses listed in this *Catalog*. All academic departments of the college may offer courses of the types listed below.

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 and the approvals outlined above, other prerequisites appropriate to the study and departmental objectives may be added.

No more than 30 semester hours earned in all courses numbered 1900, 2888, 2990, 3900, 3970, 4888, 4900, 4980, 4990 will be counted toward meeting degree requirements. This restriction does not apply to courses listed in this Catalog that use the words practicum, cooperative education, etc., and that have a number different from the numbers listed.

A specific course plan for the omnibus course, which covers content and semester hours, must be submitted by an instructor and approved by the chair of the department or discipline, the dean of the school, and the Academic Affairs Curriculum Office 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.

1900 Topics (credit variable)

Prerequisite: permission of instructor

An introductory-level class to study selected topics especially appropriate for lower-division students.

2888 Workshop (credit variable)

Prerequisite: approval of department

An introductory-level class of a concentrated nature. Involves independent and/or group appraisal and study of a special topic

3900 Advanced Topics (credit variable)

Prerequisite: permission of instructor An in-depth inquiry into selected problems.

4888 Advanced Workshop (credit variable)

Prerequisite: approval of department

An advanced class of a concentrated nature, designed primarily for students majoring in a particular department or discipline. Involves independent and/or group appraisal and analysis of major problems within a particular area.

4900 Seminar (credit variable)

Prerequisite: permission of instructor

Presentations, discussions, reports, and critiques of various problems within the discipline in which the seminar is offered.

4980 Independent Study (credit variable—not to exceed six semester hours)

Prerequisites: senior status and permission of the department chair

Independent investigation of problems within the student's major discipline. The course must be offered in that department/discipline and be supervised by a faculty member of that area. A special form is required.

Field Experience/Internship 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 coursework. 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 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 and, in consultation with the adjunct faculty member, assigns the grade for the course according to grading policies stated in this Catalog.
- Omnibus courses (2990, 3970, 4980, 4990) emphasizing field experiences 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.

2990 Field Experience/Internship (credit variable)

Prerequisite: sophomore status, permission of instructor

A work-oriented training period of actual service in an agency, institution, or technical/business establishment that provides an in-depth learning experience for the student under the direct supervision of an on-site supervisor and under the scrutiny and guidance of a faculty member (i.e., cooperative education).

3970 Practicum (credit variable)

Prerequisites: sophomore status, permission of instructor

A class that involves apprenticeship in the practical application of previously studied theory under the observance and supervision of a skilled practitioner and faculty member (i.e., practicum in reading). CCHE definition: Work-oriented instruction involving the implementation of classroom or laboratory experience under the direct supervision of a faculty member.

4980 Independent Study (credit variable—not to exceed six semester hours)

Prerequisites: senior status, permission of the department chair

Independent investigation of problems within the student's major discipline. The course must be offered in that department/discipline and be supervised by a faculty member in that area.

4990 Advanced Field Experience/ Internship (credit variable)

Prerequisite: permission of instructor

An advanced-level, supervised, in-service field or laboratory experience in an area related to the student's major, conducted by an affiliated organization in cooperation with the department/discipline in which the student is majoring.

Cooperative Education (credit variable)

Courses are subject to guidelines established for regular field experience courses, as well as cooperative education guidelines. No more than 15 semester hours of cooperative education credit will be applied toward degree requirements.

2980-1-3 Cooperative Education (credit variable)

Prerequisites: sophomore status and permission of instructor

An entry-level work experience in a private company or agency of the federal or state government related to the student's major and supervised by a competent professional on the worksite. Credit is awarded by a MSCD faculty member in the appropriate academic department for learning related to academic goals enumerated in the learning contract of each student.

3980-1-3 Cooperative Education (credit variable)

Prerequisites: junior status and permission of instructor

An advanced work experience in a private company or governmental agency related to student's major and supervised by a competent professional on the worksite. Credit is awarded by a MSCD faculty member in the appropriate academic department for learning related academic goals enumerated in the learning contract of each student. For more information on the program and placement opportunities in an academic major contact the Cooperative Education and Internship Center office at (303) 556-3290

ACC 1010-3 Accounting for Non-Business Majors (3 + 0)

Prerequisites: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment placement tests

This course is designed for non-business majors who need a basic understanding of accounting information. The course is designed to communicate an understanding of what accounting information is, what it means, how it is used, and its limitations. The course surveys both financial and managerial accounting with an emphasis on using accounting information for decision making and problem solving. Business majors cannot use this course to fulfill the School of Business accounting requirement. (General Studies—Level II, Social Sciences)

ACC 2010-3 Principles of Accounting I (3 + 0) a college-level mathematics course

Fundamental principles of accounting with emphasis on the double-entry system; theory and practice in transaction analysis; familiarization with the basic financial statements.

ACC 2020-3 Principles of Accounting II (3 + 0)

Prerequisite: ACC 2010

This course is a continuation of ACC 2010 emphasizing partnerships and corporations and using financial statement information in making decisions. An introduction to the concepts of cost accounting and the budget process as used by management for planning and control will be presented.

ACC 3090-3 Income Tax I (3 + 0)

Prerequisite: ACC 2020

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)

Prerequisite: ACC 3090

Continuation of ACC 3090 with an emphasis on the taxation of organizational tax entities, including partnerships, corporations, and subchapter "S" corporations.

ACC 3110-3 Volunteer Income Tax Assistance (VITA) (3 + 0)

Prerequisite: ACC 3090

As an extension of ACC 3090, class work is devoted to learning additional Federal Income Tax rules, regulations, and procedures. In particular, classes will concentrate on issues of special interest to disabled, elderly, or low-income individual taxpayers and on the preparation of State of Colorado returns. Students will gain practical experience in applying their knowledge by preparing tax returns at various locations throughout the Denver metropolitan area under the supervision of practicing professionals.

ACC 3200-3 Governmental Accounting (3 + 0)

Prerequisite: ACC 2020

The study of accounting used by governmental organizations, including review of municipalities' budgets and annual reports. Orientation in the concepts of budgetary control as a matter of law and public administration theory.

ACC 3300-3 Introduction to Accounting Systems (3 + 0)

Prerequisites: ACC 2020 and CMS 2010

Analysis of principles and types of tools available for the design and implementation of accounting systems. Use of case studies and various media to illustrate the manual and computer-related accounting system problems arising in various organizations and situations.

ACC 3400-3 Cost Accounting (3 + 0)
Prerequisites: ACC 2020, MTH 1310

This course includes coverage of the fundamental of computer applications; cost behavior; analysis of variance for materials, labor, and overhead; budgeting; absorption and direct costing; and job order and process cost systems.

ACC 3410-3 Cost Accounting II (3 + 0)

Prerequisites: ACC 3400, CMS 2010, and CMS 3320

This course applies cost accounting concepts and procedures to particular business decisions. Topics covered include capital budgeting, linear programming, regression analysis, measurement of organizational performance, variance analysis, budgeting, transfer pricing, activity-based costing, and just-in-time production methods. Computer applications are an integral part.

ACC 3510-3 Intermediate Accounting I (3 + 0)

Prerequisite: ACC 2020

In-depth study of basic accounting principles with emphasis on financial statements, current and long-term assets, and current liabilities.

ACC 3520-3 Intermediate Accounting II (3 + 0)

Prerequisite: a grade of "C" or better in ACC 3510

Continuation of AČC 3510. In-depth study of basic accounting principles with an emphasis on long-term debt, stockholders' equity, and special problems.

ACC 3650-2

(FIN 3650) Electronic Spreadsheets on the Microcomputer (2 + 0)

Prerequisite: FIN 3300

This course teaches the student how to create and use electronic spreadsheets (Lotus 1–2–3) on the microcomputer. Credit will be granted for only one of these courses.

ACC 4090-3 Tax Procedure and Research (3 + 0)

Prerequisite: ACC 3100

An in-depth study of tax procedure from preparation of the various returns to audit by the IRS. Also, the tools used in tax research are explained and illustrated. A research paper dealing with a major tax problem is required of each student.

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 (3 + 0)

Prerequisite: ACC 3510, ACC 3520

This course includes the study of professional ethics; legal liability; audit objectives; procedures and documentation; and auditors' reports.

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 I (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. Full disclosure issues are addressed, including interim and segment reporting requirements and accounting for changing prices. International accounting topics include accounting for foreign currency transactions and hedging transactions, foreign operations disclosure requirements, and harmonization of international accounting standards. Fraudulent financial reporting issues, accountants' legal liability, and the codes of ethics of the various accounting organizations are analyzed.

ACC 4520-3 Advanced Accounting II (3 + 0)

Prerequisite: ACC 3520

This course is a comprehensive study of mergers and acquisitions focusing on the preparation of consolidated financial statements. The additional complexities inherent in consolidating investments in foreign subsidiaries are addressed in depth.

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 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 1500-2 Private Flight (1 + 2)

Prerequisites: AES 1100, AES 1710, AES 1400; or evidence of having passed the FAA written examination This course is designed to enable a student to obtain an FAA Private Pilot Certificate at an FAR Part 141 Flight School with whom The Metropolitan State College of Denver has an agreement for flight training. A minimum of 35 hours of flight time is required. Course credit is contingent on 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 exams.

AES 2050-3 Aviation History and Future Development (3 + 0)

AES 2050 treats the growth and development of aviation from the era of myth and legend through lighter-thanair and gliders to the modern jets and the space age. The effect of wars and the invention of internal combustion and turbojet engines are studied as they contributed to aviation progress. The course discusses significant personnel, flights, and aircraft in tracing the advancement of general, commercial, and military aviation. It includes future developments in the aviation and space fields.

AES 2100-3 Fundamentals of Aviation and Technology (3 + 0)

An introductory survey course for non-aerospace science majors. Course will include such topics as aeronautics, meteorology, navigation, rules of flight, high-speed aerodynamics, physiology of flight, human beings in space, history of aviation, and career opportunities.

AES 2150-3 Avionics for Aviators (3 + 0)

Prerequisites: AES 1100, MTH 1310, PHY 1250

Provides a working knowledge of basic electrical circuits, COMM, VOR/LOC, MKR, BCN, ILS/GLD, SLP, DME, XPNDR/MODE C, radar, Loran C, antennas, and ELTS. Applies a user's systems-management approach, with emphasis on safety and precautions.

AES 2200-3 Fundamentals of Air Traffic Control (2 + 2)

Prerequisite: AES 1800 or permission of instructor

This course is an introduction to air traffic services, procedures, communications, recordkeeping, regulations, emergencies, and air space constructions.

AES 2220-3 Flight Dispatcher/Load Planning (3 + 0)

Prerequisite: AES 1100

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 the student 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 2500-3 Instrument Flight (1 + 4)

Prerequisite: FAA Private Pilot Certificate and permission of instructor

Corequisite: AES 1800 and AES 2710 recommended

This course consists of the flight training required to prepare for the FAA Instrument Rating. The flight training must be completed at an FAR Part 141 Flight School with whom The Metropolitan State College of Denver has an agreement for flight training. The instrument rating is required for course completion.

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 inflight 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)

Prerequisite: AES 1100 or permission of instructor

The course goal is to provide middle managers with an understanding of liability problems and aviation insurance coverage. FBO, manufacturer, and operator liability cases are reviewed. An overview of fundamental aviation law, insurance risks, and contract terminology necessary to understand aviation binders is included.

AES 3230-3 Airline Management (3 + 0)

Prerequisites: junior or senior 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 prepare the student to solve problems through critical thinking skills.

AES 3240-3 Airline Planning (3 + 0)
Prerequisite: junior or senior 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: AES 2330

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 MSCD Precision Flight Team.

AES 3340-1 Advanced Precision Flight and Navigation (1 + 1)

Prerequisite: AES 3330

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 students who are third semester members of the MSCD Precision Flight Team.

AES 3460-3 Weather for Aircrews (3 + 0)

Prerequisite: junior standing or permission of instructor

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 analyses 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 3520-3 Commercial Flight (1 + 4)

Prerequisite: AES 2500 or permission of the instructor

This course consists of the flight training required to prepare for the FAA Commercial Pilot Certificate. The flight training must be completed at an FAR Part 141 Flight School with whom The Metropolitan State College of Denver has an agreement for flight training. The Commercial Pilot Certificate is required for course completion.

AES 3530-3 Aerodynamics (3 + 0)

Prerequisites: AES 3000, PHY 1250

Studies basic principles of aerodynamics, including airfoil shapes and aerodynamic forces, airplane performance, stability and control, strength limitations, and the application to specific flight situations. Included are flight performance with air flow in sub-, trans-, and supersonic envelopes.

AES 3550-3 FAA Instructor Certification—Ground (3 + 0)

Prerequisites: AES 1800 and FAA commercial/instrument certificate, or permission of instructor Prepares the student for taking the following FAA knowledge tests: Fundamentals of Instruction (FOI), Flight Instructor—Airplane (single and multiengine), 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 MultiEngine Flight Simulation I (1 + 4)

Prerequisite: FAA Commercial Certificate with Instrument Rating 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 twinengine simulator. Aeronautical decision making and cockpit resource management are developed.

AES 3850-3 Human Factors and Physiology of Flight (3 + 0)

Prerequisite: junior standing or permission of instructor

Studies human factors and physiological effects and problems of flight from the standpoint of general aviation, as well as more advanced space flight.

AES 3870-3 Aircraft Accident Investigation (3 + 0)

Prerequisites: junior or senior standing or permission of instructor, AES 3000

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 4040-3 Aircraft Performance (3 + 0)

Prerequisites: AES 1100, PHY 1250, junior standing

Examines performance of jet- and propeller-powered aircraft. 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 4130-4 Flight Engineer Duties and Responsibilities (4 + 0)

Prerequisites: junior or senior standing, AES 3000, 3530, 4040, and the FAA Commercial Certificate with

Instrument Rating

Corequisite: AES 4140

This course gives flight engineer candidates an operational knowledge of DC-10 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 engineer duties and responsibilities as set forth in FAR part 121.

AES 4140-4 DC-10 Systems (4 + 0)

Prerequisites: junior or senior standing, AES 3000, AES 3530, AES 4040 and the FAA Commercial Cer-

tificate and Instrument Ratings

Corequisites: AES 3530, AES 4040, AES 4130

The course gives flight engineer candidates an operational knowledge of the various DC-10 systems. This includes power plant, fuel, electrical, hydraulic, pneumatic, air conditioning pressurization, avionics, instruments, flight controls, fire protection, and ice and rain protection.

AES 4150-2 Transport Category Aircraft Systems (1 + 2)

Prerequisite: senior standing, AES 4130, AES 4140, and the FAA Commercial Certification with Instru-

ment Rating

The course applies the theory learned in AES 4130 and AES 4140. 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)

Prerequisites: 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: junior standing; AES 3210, 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 FBO and Aircraft Marketing (3 + 0)

Prerequisite: senior standing or permission of instructor

A study of fixed-base operations. Local facilities are used as models for learning financing, construction, equipment, staffing, and operating costs, as well as marketing techniques in sales and closing in light and medium class aircraft. Includes field trips and guest lectures from industry.

AES 4240-3 Air Cargo (3 + 0)

Prerequisite: junior or senior 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 4370-3 Advanced Navigation Systems (3 + 0)

Prerequisite: permission of instructor

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 LORAN, OMEGA/VLF, INS and GPS. Finally, electronic instrumentation, navigation, and flight management systems are discussed, followed by a computer flight management practicum.

AES 4500-1 Flight Multi-Engine (1 + 1)

Prerequisites: AES 3520 or FAA Commercial Pilot Certificate or permission of instructor

This course covers multiengine aircraft operations. A minimum of 10 hours of dual flight time is required. The FAA multiengine rating must be received to obtain credit for this course.

AES 4510-1 Flight Instructor (1 + 1)

Prerequisites: AES 2710, AES 3520, AES 3710, second-class FAA medical certificate

Provides the basic aeronautical knowledge and experience necessary for the flight instructor certificate. Fifteen hours of dual flight time is required, and the flight instructor certificate must be obtained to receive credit for this course. The flight training must be completed at a flight school with whom the college has an agreement for flight training.

AES 4520-1 Flight Instructor-Instrument (1 + 1)

Prerequisites: AES 3520, second-class FAA medical certificate

This course provides the basic aeronautical knowledge and experience that the instrument flight instructor must have. Ten hours of dual flight time is required and the FAA rating must be obtained to receive course credit. The flight training must be completed at a flight school with whom the college has an agreement for flight training.

AES 4530-1 Flight Instructor-Multi-Engine (1 + 1)

Prerequisites: AES 3520, second-class FAA medical certificate

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 dual flight time is required. The FAA rating must be obtained to receive course credit. The flight training must be completed at a flight school with whom the college has an agreement for flight training.

AES 4550-1 Flight Helicopter (1 + 1)

Prerequisites: AES 3520, permission of instructor, second-class FAA medical certificate

Studies include helicopter systems, aerodynamics, flight characteristics, and helicopter operations. The FAA rating must be obtained to receive course credit. The flight training must be completed at a flight school with whom the college has an agreement for flight training.

AES 4570-1 Airline Transport Pilot (1 + 2)

Prerequisites: AES 3520, first-class medical eligibility as required in FAA regulations (part 61.151), per-

mission of instructor

Completion of credit for this course requires 1,500 hours of flight time, 500 of which is cross-country, 100 is night flying, and 75 is instrument flight. Course involves knowledge of navigation, weather, FARs, radio communications, and weight distribution on aircraft and loading.

AES 4580-4 Turbojet Flight Engineer or Type Rating (2 + 4)

Prerequisites: FAA Flight Engineer Knowledge examination and/or permission of instructor

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)

Prerequisites: AES 3570, FAA Commercial/Instrument Certificate, CFI, Advanced or Instrument Ground

Instructor Certificate, or permission of instructor

This course provides students practice as a flight instructor in advanced single- and twin-engine flight simulators. It covers all aspects of flight planning and preparation, setup of simulators, cockpit management, IFR flight procedures and navigation, and emergency procedures using the capabilities of the simulator computers.

AES 4600-3 Space Flight (3 + 0)

Prerequisite: PHY 1250, MTH 1310, AES 3000; or permission of instructor

Covers the fundamental laws of astrophysics, as well as basic concepts of the universe, astronautics, re-entry, propulsion, and launch vehicles. Includes investigation of space flight, covering such topics as crewed flight, uncrewed flight, space stations, space planes, and space policy. Concludes with computer simulation. Student teams design and build a space station using the latest aerospace techniques. The design project stresses real-world constraints and enhancement of interpersonal skills.

AES 4710-3 Turboprop Flight Simulation (1 + 4)

Prerequisite: AES 3710 or FAA Commercial Pilot Certificate with Instrument and Multi-engine Ratings Introduces twin-engine turboprop aircraft operations. Skill is developed in complex weight- and balance-computation and use of performance charts. Normal and emergency procedures are studied specific to turboprop airline operations. Aeronautical decision making and cockpit resource management skills are developed. Procedures used in regional air carrier operations are learned.

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)

Prerequisite: AES 4760 or permission of instructor

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)

Prerequisites: AES 4760, AES 4770, permission of instructor

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 and completion of all 3000-level AES courses

Presents the principles of aviation accident prevention and aviation operations safety with specific practices, procedures, methods, and organization. Covers the history of aviation mishap experience with legal ramifications, along with those methods used that have proven useful in preventing aircraft mishaps. Human factor, contemporary investigation organization and sources of assistance, analysis of aerodynamics application, fatigue, and stress are presented, applying inferential reasoning as a method of developing critical thinking.

AES 4870-3 Aviation Safety Program Management (3 + 0)

Prerequisite: all aviation management 3000-level courses completed

This course studies requirements to direct comprehensive safety programs of aviation organizations at aviation facilities. Included are the philosophy of System's Safety to effect Accident Prevention from product research and development to operation and support of air transportation; the dynamics of interpersonal relationships; Quality Assurance (QA) and Quality Control (QC); effective communications techniques; correct procedures for NTSB and OSHA investigations and reports (and methods of participating in collateral boards); as well as effective proactive management to obtain federal legislation in support of accident prevention, safety and health programs.

AES 4910-3 Aviation Management Problems 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.

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 country and the discipline of African American studies. Emphasizes the black perspective. (General Studies—Level II, Social Sciences; Multicultural)

AAS 1080-3 Readings in African American Studies (3 + 0)

A self-paced course based on selected readings in books, magazines, and newspapers on African American studies.

AAS 1130-3

(HIS 1940) Survey of African History (3 + 0)

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. This course may be taken only under one prefix: AAS or HIS. (General Studies—Level II, Historical; Multicultural)

AAS 2000-3

(SOC 2000) Social Movements and the Black Experience (3 + 0)

Prerequisite: 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. This course may be taken only under one prefix: AAS or SOC.

AAS 2100-3

(CHS 2100, ICS 2100, NAS 2100, WMS 2100) Women of Color (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment tests; one of the following: AAS 1010, CHS 1000, ICS 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, class, and ethnicity 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; religion; and politics. (General Studies—Level II, Social Sciences; Multicultural)

AAS 2130-3

(HIS 2950) West African Civilizations (3 + 0)

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. This course may be taken only under one prefix: AAS or HIS. (General Studies—Level II, Historical; Multicultural)

AAS 2200-3

(PSC 2200) Politics and Black People (3 + 0))

Prerequisites: satisfaction of General Studies Level I Mathematics requirement and either ENG 1010 or the

Level I Communication course requirement

Examines black politics as a vehicle for positive change for black people in this country. Realities and the challenges, both historical and current, are emphasized. This course may be taken only under one prefix: AAS or PSC. Credit will be granted for only one prefix. (General Studies—Level II, Social Sciences; Multicultural)

AAS 2300-3 (ANT 2350)

(ANT 2350) African Peoples and Cultures (3 + 0)

Examines traditional cultures of African peoples. Gives added understanding of culture and people in relation to human problems and experiences. This course may be taken only under one prefix: AAS or ANT.

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 3240-3

(ENG 3240) African American Literature (3 + 0)

Prerequisites: six semester hours of English above 1020 or permission of instructor, and satisfaction of

Level I General Studies course requirements

Studies literature by black Americans. Considers works in the context of the historical and social conditions of the time at which they were written. This course may be taken only under one prefix: AAS or ENG. Suitable for non-English majors. (General Studies—Level II, Arts and Letters; Multicultural)

AAS 3300-3

(SOC 3140)

The Black Community (3 + 0)
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. This course may be taken only under one prefix: AAS or SOC. Credit will be granted for only one prefix. (General Studies—Level II, Social Sciences; Multicultural)

AAS 3400-3

(PSC 3400) Contemporary Africa (3 + 0)

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. This course may be taken only under one prefix: AAS or PSC. Credit will be granted for only one prefix.

AAS 3550-3

(SOC 3440)

The Black Family (3 + 0)
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. This course may be taken only under one prefix: AAS or SOC. (General Studies—Level II, Social Sciences)

AAS 3570-3

(HIS 3570) African American History I (3 + 0)

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. This course may be taken only under one prefix: AAS or HIS. Credit will be granted for only one prefix.

AAS 3580-3

(HIS 3580) African American History II (3 + 0)

HIS 1210, HIS 1220, or permission of instructor Prerequisites:

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. This course may be taken only under one prefix: AAS or HIS.

AAS 3700-3

(PSY 3700) Psychology of Racism and Prejudice (3 + 0)

Prerequisites: PSY 1001, AAS 1010, and three hours of course work at the 2000-level or above in AAS,

CHS, ICS, NAS, PSY, or WMS; or permission of instructor

Examines the origins, nature, and transmission of prejudice from a psychological perspective. Topics include racism, sexism, classism, and homophobia. Theoretical orientations, research, and perspectives on change are addressed.

AAS 3910-3

(PSC 391) African Politics and Government (3 + 0)

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. This course may be taken only under one prefix: AAS or PSC.

AAS 4400-3 (PSC 4400) South African Politics (3 + 0)

AAS 1130, AAS 3910, or permission of instructor Prerequisites:

Presents an in-depth study of the South African political system and its historical development and contemporary operation. This course may be taken only under one prefix: AAS or PSC.

AAS 4490-3 Contemporary Issues in African American Studies (3 + 0)

Prerequisites: junior or senior 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)

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)

ANT 1310-3 Introduction to Cultural Anthropology (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests. 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)

ANT 2100-3 Human Evolution (3 + 0)

Prerequisite: ANT 1010 or permission of instructor

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)

Prerequisites: 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

(AAS 2300) African Peoples and Cultures (3 + 0)

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

(CHS 2000) Living Culture and Language of the Mexican and Chicano (3 + 0)

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)

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 fundamental features of these processes and analyze them.

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 practice 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)

Prerequisites: ANT 1310 or permission of instructor

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.

ANT 3350-3 Vanishing Cultures and Peoples (3 + 0)

Prerequisite: ANT 1310 or permission of instructor

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)

Prerequisite: ANT 1310 or permission of instructor

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)

Prerequisites: permission of instructor and satisfaction of Level I General Studies course requirements
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 appropriate health care. (General Studies—
Level II, Social Sciences; Multicultural)

ANT 3610-3 Archaeology of North America (3 + 0)

Prerequisite: ANT 1010 or permission of instructor

Prehistory of North America emphasizing the peopling of the New World, earliest Indian cultures, and later regional developments.

ANT 3620-3 South American Archaeology (3 + 0)

Prerequisite: ANT 1010 or equivalent, or permission of instructor

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)

Prerequisite: ANT 1010 or equivalent, or permission of instructor

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 civilizations to our culture will be stressed.

ANT 3680-3 Practical Archaeology (3 + 0)

Prerequisite: ANT 2640 or equivalent, or permission of instructor

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 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

The following art courses are listed numerically by area:

Non-Majors Courses

ART 1030-3 Basic Photography Methods (0 + 6)

Students will learn black-and-white film development and printing, basic photographic problem solving dealing with technical and aesthetic concerns. Oriented to non-art majors.

ART 1040-3 Art Appreciation Survey (3 + 0)

Prerequisites: ENG 1010, ENG 1020, and minimum performance standard scores on reading and writing

preassessment placement tests

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 will also be analyzed as social, political, and religious documents. Oriented to non-art majors. (General Studies—Level II, Arts and Letters)

CORE ART COURSES

ART 1100-3 Basic Drawing I (0 + 6)

This course is an introductory course in the fundamental skills, techniques, media and vocabulary associated with basic drawing.

ART 1110-3 Basic Drawing II (0 + 6)

Prerequisite: ART 1100

This course is a continuation of ART 1100 with further explorations of fundamental drawing experiences and concept related problems.

ART 1200-3 Design Processes and Concepts I (0 + 6)

This course is a visual exploration of the basic elements and principles of two-dimensional design, using a variety of media, with emphasis on conceptual processes.

ART 1210-3 Design Processes and Concepts II (0 + 6)

Prerequisite: ART 1200

This course is a visual exploration of the basic elements and principles of three-dimensional design, using a variety of media and tools, with emphasis on conceptual processes.

GENERAL STUDIES REQUIRED COURSES

ART 4010-3 Modern Art History: Theory and Criticism (3 + 0)

Prerequisites: ART 2010 and ART 2020 or permission of instructor, satisfaction of all Level I and Level II

General Studies course requirements, and senior standing

A seminar for advanced students involving the reading and discussion of modern writing about the visual arts. Extensive use of the library facilities and written critical essays will be required. (Senior Experience)

ART 4750-3 Senior Experience Studio: Portfolio Development and Thesis Exhibit (0 + 6)

Prerequisites: ART 4010 or permission of instructor, satisfaction of all Level I and Level II General Stud-

ies course requirements, and senior standing in the Art Department

In this studio course, the student will present finished work in a senior thesis show, produce a slide portfolio, and write a concise statement about the intention and methodology of producing the body of work. This class is to be taken in the senior year in the Art Department with the corequisite ART 4010. (Senior Experience)

ART HISTORY

ART 2000-3 World Art Prior to 1880 (3 + 0)

Prerequisite: ENG 1010, ENG 1020

This survey of art from both Western and non-Western traditions examines art produced prior to 1880 as the manifestation of the beliefs, aesthetic systems, and social structures of specific cultures and historical periods.

ART 2010-3 Survey of Modern Art: Impressionism through Abstract Expressionism (3 + 0)

Prerequisite: ENG 1010 Corequisite: ENG 1020

This course is a survey of modern art that traces the roots of contemporary art theory and techniques back to

Impressionism, showing a development of these ideas through Abstract Expressionism.

ART 2020-3 Survey of Contemporary Art: 1960 to the Present (3 + 0)

Prerequisite: ART 2010 and ENG 1020

This course is a survey of contemporary art that traces the development of contemporary art from the period following Abstract Expressionism to the present with emphasis on art in America.

ART 3000-3 Art Nouveau (3 + 0)

Prerequisite: ART 2010

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.

ART 3010-3 Art of the Decade (3 + 0)

Prerequisite: ART 2020

Art of the Decade traces specific thematic trends of the present to their roots in the immediate past. Emphasis is placed on current art theory.

ART 3020-3 Art of Africa, Oceania, and the Americas (3 + 0)

Prerequisites: ENG 1010, ENG 1020

This course is an introduction to the major art forms produced by selected cultures in Africa, the Pacific Islands, and North and Central America. The historical, religious, social, and political content of the artworks will be studied.

ART 3030-3 History of Art Between World Wars (3 + 0)

Prerequisite: ART 2010

An in-depth study of art, architecture, and design in the transitional period between World War I and World War II.

ART 3040-3 African Art (3 + 0) Prerequisites: ENG 1010 and ENG 1020

This course examines the visual arts in selected regions of the African continent. It is cross-listed with African American Studies.

ART 3070-3 History of Photography (3 + 0)

Prerequisite: ART 2020

Study of the development of the photographic process and the history of the photographic image from the earliest experiments through contemporary photographic concerns.

ART 3090-3 Art and Cultural Heritage (3 + 0)

Prerequisites: satisfaction of Level I General Studies course requirements and at least junior standing This course studies artists of African, Asian, and Native American ancestry and their contributions to American art. A brief introduction to the artistic legacy of Africa, Asia, and the Americas is followed by a study of American artists whose creative activity reflects their varied cultural heritages. (General Studies—Level II, Arts and Letters; Multicultural)

ART 3950-3

(WMS 3950) Women's Art/Women's Issues (3 + 0)

Prerequisites: WMS 1010, ART 1040 or ART 2000, or permission of instructor and satisfaction of Level I

General Studies course requirements

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. (General Studies—Level II, Arts and Letters)

FINE ARTS

ART 2100-3 Beginning Life Drawing (0 + 6)

Prerequisite: art core or permission of instructor

Literal and interpretive investigations of the human figure including basic anatomy; use of a variety of media and techniques.

ART 2120-3 Human Anatomy for Artists (0 + 6)

Prerequisites: ART 1110 and ART 2100

A comprehensive study of human anatomy as a studio drawing experience; emphasis upon objective investigations of the skeletal and musculature systems. Drawing is from the live model as well as an exploration of the interpretive possibilities of the human form. ART 2150-3 Beginning Painting (0 + 6)

Prerequisites: ART 1100, ART 1110, ART 1200, ART 2010, and ART 2020

This course will explore the materials and techniques of painting, including composition and method.

ART 2200-3 Beginning Photography (0 + 6)

Prerequisites: ART 1110, ART 1210

Introduction to photography: materials, techniques, and concepts of picturing. Exploration and usage of basic light-sensitive materials and introduction to ideas about the art of picture making in relation to special course projects.

ART 2250-3 Beginning Printmaking (0 + 6)
Prerequisites: ART 1110, ART 1210 and ART 2020

A beginning printmaking class introducing the student to calligraphy, art blueprint, silk screen, and intaglio.

ART 2300-3 Beginning Sculpture (0 + 6)

Prerequisites: ART 1110, ART 1210

Course introduces students to thinking and problem solving in three diminisions. Sculptural ideas and forms are explored in three basic media/techniques: wood/carving; metal/welding; mold making/casting.

ART 3100-3 Intermediate Drawing (0 + 6)
Prerequisites: ART 1110, ART 1210, ART 2020

The explorations that were the focus of basic drawing are joined with a great emphasis on conceptualization and personal directions.

ART 3140-3 Drawing the Human Head (0 + 6)

Prerequisites: art core

Students will draw the human head objectively and subjectively. A variety of media and techniques, with literal and inventive explorations of anatomy and surface forms will be included.

ART 3150-3 Intermediate Painting (0 + 6)

Prerequisites: art core and ART 2150

This course will continue the development of methods of painting through exploration of materials, techniques, and pictorial compositional assignments.

ART 3170-3 Intermediate Life Drawing (3 + 0)

Prerequisites: art core and ART 2100

The student will redefine traditional drawing skills, extend conceptualization, and expand media and techniques in reference to the human form.

ART 3180-3 Watermedia (0 + 6)

Prerequisites: art core or permission of instructor

This course includes both transparent and opaque watermedia and mixed media techniques and approaches.

ART 3200-3 Intermediate Photography (0 + 6)

Prerequisites: ART 2020 and ART 2200

Introduction to the extended personally directed project. Problems given to broaden technical skills. Aesthetic and historical issues introduced.

ART 3230-3 Color Photography (0 + 6)

Prerequisite: ART 2200

Basic color photography course: Students will have introduction to color materials. Film and print development will be taught. Students will work to produce a body of color photographs.

ART 3250-3 Intermediate Printmaking (Lithography) (0 + 6)

Prerequisites: ART 2020 and ART 2250

Black-and-white and colored lithographic prints are developed through traditional and contemporary techniques.

ART 3260-3 Intermediate Printmaking (Intaglio) (0 + 6)

Prerequisites: ART 2020 and ART 2250

Various intaglio techniques are explored to allow the student to develop a unique personal expression.

ART 3270-3 Intermediate Printmaking (Silkscreen) (0 + 6)

Prerequisites: ART 2020 and ART 2250

Serigraph (silk-screen) printing in which students are taught to use silk-screen as a means to search for a personal and unique aesthetic image.

ART 3290-3

(JRN 3600) Photojournalism I (0 + 6)

Prerequisites: art core, ART 1010 or ART 2200, ART 1200 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.

ART 3300-3 Intermediate Sculpture (0 + 6)

Prerequisite: ART 1010 and ART 2300

Creative approach to the problems of three-dimensional design in sculpture. Production in metals, wood, plastics or other media as appropriate to student's sculpture concept.

ART 3780-3 Video Art (0 + 6)

Prerequisites: ART 1110, ART 1210, ART 2020 or permission of instructor

This course will serve as an introduction to small format video systems and their operation. Upon completion of the course, students will be familiar with half-inch and three-quarter inch systems. Students will learn basic production that is directed toward creative self-expression. Virtuosity will be emphasized through the application of strong ideas.

ART 4090-3 Advanced Life Drawing (3 + 0)
Prerequisites: art core, ART 2100, ART 3170

The student will continue experimentation with the figurative idiom and determine a personal approach to a body of figurative work.

ART 4100-3 Advanced Drawing I (0 + 6)

Prerequisite: ART 3100

This is the first tier of advanced drawing in which experimentation and creativity with visual ideas and systems will be encouraged in a supportive climate for individual directions.

ART 4110-3 Advanced Drawing II (0 + 6)

Prerequisite: ART 4100

This is the second tier of advanced drawing in which experimentation and creativity with visual ideas and systems will be encouraged in a supportive climate for individual directions.

ART 4120-3 Advanced Drawing III (0 + 6)

Prerequisite: ART 4110

This is the third and highest tier of advanced drawing in which experimentation and creativity with visual ideas and systems will be encouraged in a supportive climate for individual directions.

ART 4150-3 Advanced Painting I (0 + 6)

Prerequisites: art core and ART 3150

This advanced course will continue the development of methods of painting through exploration of materials, techniques, and pictorial composition assignments.

ART 4160-3 Advanced Painting II (0 + 6)

Prerequisite: ART 4150

This advanced course will continue the development of methods of painting through exploration of materials techniques, and pictorial composition.

ART 4170-3 Advanced Painting III (0 + 6)

Prerequisite: ART 4160

This advanced course will continue the development of methods of painting through exploration of individualized painting problems.

ART 4180-3 Advanced Watermedia (0 + 6)

Prerequisites: art core and ART 3180

This course includes both transparent and opaque watermedia and mixed media techniques and approaches. Students will have some choice concerning which media they want to explore most fully.

ART 4190-3 Computer Graphics III (0 + 6)

Prerequisite: ART 3410

This course in computer graphics laboratory will cover such areas as drawing, painting, video, bookmaking, sound, and animation as they relate to the fine arts.

ART 4200-3 Advanced Photography I (0 + 6)

Prerequisite: ART 3200

Extended projects emphasizing personal vision and approach to photographic media. Technical problems will be solved.

ART 4210-3 Advanced Photography II (0 + 6)

Prerequisite: ART 4200

Advanced photography course dealing with archival processing. Production of a cohesive body of work with writing about concepts and ideas involved in the work. Research project about photographer's specific work or a photography monograph.

ART 4220-3 Advanced Photography III (0 + 6)

Prerequisite: ART 4210

Advanced photography course: Students will consider possibilities of producing a body of work that could become a photography book or portfolio and follow project through to finished product. Basic skills of slide reproduction of both original and printed materials will be taught, and introduction to photography criticism.

ART 4230-3 Advanced Color Photography (0 + 6)

Prerequisite: ART 3230

Continuation of ART 3230, Color Photography.

ART 4240-3 Photography Assistantship (0 + 6)

Prerequisites: ART 2200 and ART 3200 or permission of instructor

This studio course allows the photography student to put into use the basic skills learned in previous courses and to learn at an intense pace the fine tuning of those skills by demonstrating and critiquing. Students will learn to run laboratories, mix special chemicals, and further enhance oral skills by developing teaching strategies.

ART 4250-3 Advanced Printmaking I (0 + 6)

Prerequisite: ART 3250 or ART 3260 or ART 3270

Advanced work in silk screen, lithography, intaglio, and/or photo printmaking in which the student is directed toward unique individual expression.

ART 4260-3 Advanced Printmaking II (0 + 6)

Prerequisite: ART 4250

A further opportunity for the advanced student to develop a unique individual expression in printmaking, with professional control in their chosen area of specialization.

ART 4270-3 Advanced Printmaking III (0 + 6)

Prerequisite: ART 4260

A course for art majors emphasizing printmaking that allows students to develop their individual printmaking aesthetic and hone their craftsmanship.

ART 4290-3

(JRN) 4600) Photojournalism II (0 + 6)

Prerequisites: art core, ART 1010 or ART 2200, ART 3290 or permission of instructor

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.

ART 4300-3 Advanced Sculpture I (0 + 6)

Prerequisite: ART 3300

The student, in consultation with the instructor, will investigate concepts and create sculpture(s) that realize those concepts.

ART 4310-3 Advanced Sculpture II (0 + 6)

Prerequisite: ART 4300

This course is designed to develop the individual's ability to express her or his ideas and concepts in various sculptural media.

ART 4320-3 Advanced Sculpture III (0 + 6)

Prerequisite: ART 4310

This course continues systems and activities begun in ART 2300, Beginning Sculpture, developed through succeeding courses and culminating in quasi professional approach to creating sculpture.

DESIGN

ART 1180-3 Introduction to Computers in Art (0 + 6)

This course introduces the computer as an art tool. Using Macintosh systems, students will design and create a series of aesthetically based assignments.

ART 2180-3 Beginning Computer Imaging I (0 + 6)

Prerequisite: ART 1180

This course is based on fine art concepts in which the prime concern is the production of art works, illustrations, and designs with software application concentrating on Photoshop and Painter.

ART 2190-3 Beginning Computer Imaging II (0 + 6)

Prerequisite: ART 1180

This course is based on design concepts in which the prime concern is the production of designs, illustrations, and artworks with software applications of Illustrator and QuarkXPress.

ART 2400-3 Beginning Advertising Design (0 + 6)

Prerequisites: ART 1110, ART 1210

An introduction to the utilization of the letter form as a compositional element. Offers specific instruction relating to the rendering of Roman, Sans-Serif, and calligraphic alphabets.

ART 3340-3 Illustration (0 + 6)

Prerequisites: art core and ART 2400, or permission of instructor

This course will provide opportunities to conceptualize, explore a variety of illustrative techniques and acquire skills necessary for production of professionally executed projects.

ART 3400-3 Intermediate Advertising Design (0 + 6)

Prerequisites: ART 2020, ART 2400 or permission of instructor

An introductory course in advertising design, illustration, and visual communication. Includes instruction relating to the preparation of art work for reproduction.

ART 3410-3 Intermediate Computer Imaging (0 + 6)

Prerequisite: ART 1180 and ART 2180 or ART 1180 and ART 2190

This course will include principles of using the computer as an art making tool in commercial and fine art applications.

ART 3440-3 Color Theory and Practice (0 + 6)

Prerequisite: art core or permission of instructor

This studio course investigates the interaction of color through various color systems that will permit students from any discipline to have a working knowledge of color hues and properties of color.

ART 3760-3 Artist's Hand Bookmaking Workshop (0 + 6)

Prerequisites: ART 1110, ART 1210 and ART 2020

This studio course will deal with the book as an art object. Structure, craft, and conceptual ideas will be taught. Students will build various traditional and nontraditional book types and provide display methods for books in an exhibition context. Hand paper making will be demonstrated.

ART 3840-3 Directed Studio Projects (0 + 6)

Prerequisites: art core, junior or senior standing and permission of instructor

In this course students develop individual verbal and visual responses to the transformation of concepts and ideas into art using a variety of media.

ART 4400-3 Advanced Advertising Design I (0 + 6)

Prerequisite: ART 3400

Continuation of ART 3400 with emphasis on the production of finished work for the preparation of a graduate portfolio.

ART 4410-3 Advanced Advertising Design II (0 + 6)

Prerequisite: ART 4400 A continuation of ART 4400.

ART 4490-3 Internship/Advanced Advertising Design (0 + 9)

Prerequisites: ART 4400 and ART 4410

This final course in the advanced sequence includes an internship selected for its professional challenges so that students may gain experiences in the reality of the graphic design world.

ART 4510-3 Advanced Computer Imaging (0 + 6)

Prerequisite: ART 3410

This course explores advanced techniques for both fine art and commercial applications of the computer with emphasis on independent problem solving.

ART 4840-3 Directed Studio Projects II (0 + 6)

Prerequisites: art core, ART 3840, junior or senior standing and permission of instructor

This course further develops advanced levels of production and critique that anticipate highly individualize mixed media solutions to complex conceptual problem solving.

CRAFTS

ART 2600-3 Beginning Ceramics (0 + 6)

Prerequisites: ART 1110, ART 1210

Introducing clay as a working medium. The instruction includes exploration of a variety of hand-building methods, introduction to ceramic technology, and preparing ware for glazing and firing.

ART 2650-3 Beginning Metalwork and Jewelry Making (0 + 6)

Prerequisites: ART 1110, ART 1210

Beginning level course emphasizing transitional approaches to the creation of handcrafted jewelry and precious metal object; introducing the student to the jewelers workshop, basic fabricating techniques, simple stone setting, and lost-wax casting.

ART 2800-3 Beginning Art Furniture (0 + 6)

Prerequisites: art core

This course will develop the skills necessary to assemble and craft basic small object art furniture and provide an introduction to aesthetic and conceptual understanding of the discipline.

ART 3600-3 Intermediate Ceramics (0 + 6)

Prerequisites: ART 2020, ART 2600

A continued study of ceramic techniques with primary emphasis on learning to use the potter's wheel. Exploration of ceramic processes at stoneware temperatures emphasizing glaze usage with some glaze and color testing. Discussion of kilns and firing processes.

ART 3610-3 Mold Making Workshop (0 + 6)

Prerequisite: one semester of college-level ceramics or permission of instructor

An introduction to making molds from three-dimensional objects. Students will learn to make several types of plaster molds useful for reproducing originals in slipcast clay or cast paper.

ART 3650-3 Intermediate Metalwork and Jewelry Making (0 + 6)

Prerequisites: ART 2020, ART 2650

An intermediate level course expanding on the tradition as well as introducing contemporary approaches to the creation of handcrafted jewelry and precious metal objects. The course will emphasize construction, surface enrichment, and forming.

ART 3800-3 Intermediate Art Furniture (0 + 6)

Prerequisites: art core and ART 2800

This course will develop the skills necessary to assemble and craft basic fine art furniture, and further one's aesthetic and conceptual understanding of the discipline.

ART 4600-3 Advanced Ceramics I (0 + 6)

Prerequisite: ART 3600

Offers an opportunity to extend the student's knowledge of ceramic processes including further experience with varieties of wheel-thrown forms and with combinations of wheel-thrown and hand-built forms.

ART 4610-3 Advanced Ceramics II (0 + 6)

Prerequisite: ART 4600

Continued study of ceramics to develop and refine skills for working with clay, glazes, and firing processes. Problems are designed to promote an awareness of the technical and aesthetic possibilities inherent in ceramic processes and to develop a sense of responsibility toward the medium.

ART 4620-3 Advanced Ceramics III (0 + 6)

Prerequisite: ART 4610

Advanced studio work in ceramics with emphasis on refining the student's individual skills and extending the range of expression available through better technical understanding. The problems to be approached will be formulated by students in consultation with the instructor.

ART 4650-3 Advanced Metalwork and Jewelry Making I (0 + 6)

Prerequisite: ART 3650

An advanced-level course emphasizing contemporary approaches to the creation of handcrafted jewelry and previous metal objects. The course will include advanced stone setting, fastening devices, and electrocoloring. Artistic growth will be stressed.

ART 4660-3 Advanced Metalwork and Jewelry Making II (0 + 6)

Prerequisite: ART 4650

An advanced-level course emphasizing contemporary approaches to the creation of handcrafted jewelry and previous metal objects. The course will include marriage of metals, inlays, and lamination. Artistic growth and professional maturity will be stressed.

ART 4670-3 Advanced Metalwork and Jewelry Making III (0 + 6)

Prerequisite: ART 4660

An advanced-level course emphasizing contemporary approaches to the creation of handcrafted jewelry and previous metal objects. The course will include chemical formula finished, coloration formulas, and alloy formulas. Portfolio preparation for postgraduate opportunities will be emphasized.

ART 4740-3 Low Fire Ceramic Workshop (0 + 6)

Prerequisite: one semester of college-level ceramics or permission of instructor

A workshop in low-fire ceramic materials and processes. Students will explore oxidation firing, raku and sagger firing processes and effects. Offered summer sessions only.

ART 4760-3 Advanced Art Furniture I (0 + 6)

Prerequisites: art core, ART 2800, and ART 3800

This course will develop the skills necessary to assemble and craft basic fine art furniture, and further one's aesthetic and conceptual understanding of the discipline.

ART 4770-3 Advanced Art Furniture II (0 + 6)

Prerequisites: art core, ART 2800, ART 3800, and ART 4760

This course will develop the skills necessary to assemble and craft fine art furniture of exhibition quality, provide a comprehensive aesthetic and conceptual understanding and encourage stylistic maturity in the discipline.

ART 4780-3 Advanced Art Furniture III (0 + 6)

Prerequisites: art core, ART 2800, ART 3800, ART 4760, and ART 4770

This course will develop the skills necessary to design and craft fine art furniture of exhibition quality, and develop stylistic maturity. Portfolio development and preparation will be required upon completion of art furniture sequence.

ART EDUCATION LICENSURE

ART 3380-4 Introduction to Art Education (3 + 2)

Prerequisites: 27 semester hours of art major (including core) coursework, or permission of instructor This lecture course will introduce historical, philosophical, social, and educational concepts, which have influenced the development of art education in the United States. The current standing of art education, within the context of general education, will be assessed, and a field experience required.

ART 4370-2 Art Methods for the Classroom Teacher K-6 (0 + 4)

Prerequisites: EDU 2120, EDU 2640, EDU 3640, and ART 1040

This studio course for elementary education students will combine practical studio experiences in art with art education theory and philosophy.

ART 4380-4 Art Methods/Materials K-12 (1 + 6)

Prerequisites: EDS 3110, ART 3380, or permission of instructor

This lecture/studio course, preparing K-12 art specialists, is designed to create and implement visual art curriculum through theoretical approaches to and experimental activities in methodology of art education. Field experience is required.

ART 4390-3 Integrating the Arts for Gifted and Talented (2 + 2)

Prerequisites: one course selected from the following disciplines: music, dance, theater, visual arts or cre-

ative writing and permission of instructor

This course will present a variety of integrated arts curricula appropriate for gifted learners by studying theoretical concepts and practical applications that stimulate the creative process. Field experience is required.

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 1050-4 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 1060-4 General Astronomy II (3 + 2)

Prerequisite: AST 1050 A continuation of AST 1050.

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)

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.

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 interrelationships 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)

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 human ecology of North America. Classical concepts of ecology and modern environmental pressures are brought together to give both a background to and a discussion of existing environmental problems. A field trip to the Denver Museum of Natural History is required outside of class. This course does not apply toward a biology major or minor. (General Studies—Level II, Natural Science)

BIO 1080-4 General Introduction to Biology (3 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

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, genetics, evolution, and ecology. Offered in lecture, laboratory, and self-paced laboratory formats. (General Studies—Level II, Natural Science)

BIO 1230-1 Understanding Medical Terminology (Self-Paced) (1 + 0)

This self-paced course uses an audiovisual system to teach the meanings of 350 Latin and Greek word parts (elements) and how they can be combined to interpret and understand 10,000 complex medical terms.

BIO 2100-5 General Botany (3 + 4)

Prerequisite: BIO 1080 or equivalent

This is a one-semester introductory survey of the plant kingdom with an emphasis on evolutionary theory, life cycles, anatomy and morphology, and vascular plant physiology.

BIO 2200-5 General Zoology (3 + 4)

Prerequisite: BIO 1080 or equivalent

This is a one-semester introduction to concepts and principles of taxonomy, nutrition, respiration, reproduction, excretion, locomotion, environmental awareness, structure-function, economic importance, ecology, and evolution, for all major animal groups, protozoa through mammals.

BIO 2310-4 Human Anatomy and Physiology I (3 + 3)

Prerequisite: BIO 1080 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, sport and 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, sport and leisure studies majors.

BIO 2400-4 General Microbiology (3 + 2)

Prerequisites: BIO 1080, plus one year of high school chemistry, or one semester of college chemistry, or

permission of instructor

This is a one-semester introduction to the microbial world, including discussions of bacteria, blue-green algae, fungi, protozoans, and viruses.

BIO 3010-3 Microtechnique (1 + 6)

Prerequisite: BIO 2100, or BIO 2200, or permission of instructor

This is exclusively a laboratory course that is taught partially by demonstration with the use of prepared projection slides and specialized equipment such as microtomes, warming tables, staining series, and embedding ovens. Students are expected to prepare their own slides, using both plant and animal tissues.

BIO 3050-4 Cell and Molecular Biology (4 + 0)

Prerequisites: BIO 1080 and CHE 3100, or permission of instructor

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)

Prerequisite: BIO 2100 or permission of instructor

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 3150-2 Plant Hormones (2 + 0)

Prerequisite: BIO 2100 or permission of instructor

This course is a study of the roles of the natural hormones such as auxins, gibberellins, cytokinins, and abscisic acid in the growth and development of vascular plants. The use of synthetic substances (growth regulators) such as weed killers and growth retardants is also discussed.

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)
Prerequisite: BIO 2100 or permission of instructor

The identification and collection of the common vascular plants of Colorado is studied. Lectures include principles 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 3210-4 Histology (2+6)

Prerequisite: BIO 2200, or BIO 2310, or BIO 2320, or permission 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 are required.

BIO 3220-5 Comparative Vertebrate Anatomy (3 + 6)

Prerequisite: BIO 2200 or permission of instructor

A comprehensive study is made of the evolution of structure and function of vertebrates. The laboratory portion of the course is emphasized and will consist of detailed dissections of vertebrates representing several classes.

BIO 3250-4 Arthropod Zoology (3 + 3)

Prerequisite: BIO 2200 or permission of instructor

A survey is made of the major classes of arthropods. The arachnids, crustacea, diplopoda, chilopoda, and insects are covered in much greater detail than is possible in a general zoology course. The subarthropods are covered briefly.

BIO 3270-4 Parasitology (3 + 2)

Prerequisite: BIO 2200 and junior or senior standing

A study is made of the structure, function, taxonomy, and life cycles of those parasites important to humans, domestic animals, the economy, or that illustrate parasitological principles.

BIO 3300-3 Advanced Human Biology for Non-Majors (3 + 0)

Prerequisites: BIO 1000, or BIO 2310, or BIO 2320, or permission of the instructor, and satisfaction of

Level 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 3340-3 Endocrinology (3 + 0)

Prerequisites: BIO 1080, two additional semesters of biology, and 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, CHE 3100, and junior or senior standing, or permission of instructor Prerequisites:

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.

Animal Physiology (4 + 0) BIO 3360-4

BIO 2200 and CHE 1810, or permission of instructor Prerequisite:

This is a lecture course for science majors on the physiological process common to most animals, and on the physiological adaptations and acclimation to environmental challenges—especially with respect to temperature, moisture, and oxygen availability.

BIO 3550-4 Urban Ecology (3 + 3)

Prerequisites: BIO 1080 or one semester of chemistry, physics, or earth science, or permission of instruc-

tor, 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 two additional semesters 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 variation and human genetic diseases are discussed.

BIO 4120-4 Algology (2 + 4)

Prerequisite: **BIO 2100**

This course is a survey of algae, with emphasis on the freshwater forms of the U.S. Evolutionary theory, ecology, life cycles, and anatomy and morphology are discussed. The laboratory stresses culturing techniques and taxonomy.

BIO 4160-4 Mycology (2 + 4)

BIO 2100 or BIO 2400 Prerequisite:

This course is a survey of the fungi with emphasis on the lower fungi, imperfects, and plant pathogenic ascomycetes. Culture techniques, identification, life cycles, and economic importance are stressed.

BIO 4250-4 Entomology (3 + 3)

Prerequisites: BIO 2200 and junior or senior standing, or permission of instructor

A study of the structure, physiology, and evolution of the insects. The internal, as well as external, structure of the insects is considered and the importance of these structures on the insects is developed both in lecture and laboratory.

BIO 4270-3 Herpetology (2 + 2)

BIO 2200 and BIO 4540 or BIO 4550, or permission of instructor Prerequisites:

This course is a survey of the characteristics, taxonomy, evolutionary trends, and environmental adaptations of amphibians and reptiles. Identification of Colorado species will be emphasized in the laboratory. Current literature readings will be assigned. At least one weekend field trip will be required.

BIO 4280-4 Ornithology (3 + 3)

Prerequisite: BIO 2200 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. Includes consideration of behavior, physiology, and classification. Required field trips may include one weekend trip.

BIO 4290-3 Mammalogy (2 + 3)

BIO 2200 and 4540 or 4550, or permission of instructor

This course is a survey of taxonomic, physiologic, and anatomic characteristics of modern orders of mammals. Illustrative environmental adaptations and major evolutionary trends will be discussed. The laboratory will include study-skin preparation and identification of representative mammalian species.

BIO 4400-4 Microbial Physiology (3 + 3)

BIO 2400 and CHE 3100 (may be taken concurrently), or equivalent, or permission of Prerequisites:

instructor

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)

Prerequisites: BIO 2400 and BIO 3600, or permission of instructor

A survey of the interactions of viruses and their hosts is presented. The emphasis is on bacterial 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 epidemi-

ology 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 4510-3 Microbial Ecology (3 +0)

Prerequisites: BIO 2400 and six hours of upper-division microbiology 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 will be 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, in either a lecture/seminar or self-paced format, 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. This course, in lecture/seminar format, is approved for Senior Experience credit or can be applied to the biology major or minor requirements, but cannot be applied to both Senior Experience and a biology major or minor. The self-paced format can be used for biology major or minor requirements, but not for Senior Experience credit. (Senior Experience)

BIO 4550-4 Animal Ecology (3 + 3)

Prerequisite: BIO 2100 and BIO 2200, or permission of instructor

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.

BIO 4810-4 Vertebrate Embryology (2 + 6)
Prerequisite: BIO 2200 or permission of instructor

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)

Chemistry

CHE 1010-3 Chemistry and Society (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

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)

CHE 1100-5 Principles of Chemistry (4 + 2)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course is a study of the fundamentals of chemistry including both theoretical and laboratory principles. 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)

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 Studies—Level II, Natural Science)

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 requiring 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 and CHE 1850 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. (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 substances, 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 2500-3 Introduction to Occupation Health & Safety (3 + 0)

Prerequisite: CHE 1800, CHE 1810, CHE 1850

This course is an introduction to occupational health and safety and includes an historical perspective, development of various health agencies, and the impact of the Occupational Safety and Health Act of 1970. Students will be introduced to recognition, evaluation, and control of hazards in the work environment.

CHE 2700-4 Introduction to Criminalistics (3 + 2)

A study of basic principles and analysis of microevidence, drug analysis, dactyloscopy, firearms examination, serology, hair and fiber analysis, and soil and glass analysis.

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.

CHE 2760-1 Field Testing and Laboratory Analysis of Drugs (1 + 0)

Prerequisite: CHE 1100

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)

Prerequisites: CHE 1800, CHE 1810, CHE 1850

Corequisite: CHE 3010

A study of the fundamentals of analytical chemistry, including principles of gravimetric, volumetric, potentiometric, and spectrophotometric analyses.

CHE 3010-2 Analytical Chemistry Laboratory (0 + 4)

Prerequisites: CHE 1800, CHE 1810, CHE 1850

Corequisite: CHE 3000

A study of laboratory methods in analytical chemistry, including techniques of gravimetric, volumetric, potentiometric, and spectrophotometric analyses.

CHE 3050-3 Environmental Chemistry (3 + 0)

Prerequisites: CHE 1800, CHE 1810, CHE 1850, CHE 3100

A study of the sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and biota environments.

CHE 3100-4 Organic Chemistry I (4 + 0)

Prerequisites: CHE 1800, CHE 1810, CHE 1850; satisfaction of Level I General Studies course requirements 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)

Prerequisite: CHE 3100

A continuation of CHE 3100. A study of the nomenclature, structure, physical/chemical/spectroscopic properties, synthesis, and reactions of the major families 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

Prerequisite or Corequisite: CHE 3100

A laboratory course whose focus is an introduction to basic techniques of preparation, purification, and identification of organic compounds. (General Studies—Level II, Natural Science)

CHE 3130-2 Organic Chemistry Laboratory II (0 + 4)

Prerequisites: CHE 3100 and CHE 3120 Prerequisite or Corequisite: CHE 3110

A continuation of CHE 3120. A qualitative organic analysis course in which both classical and instrumental techniques are used to elucidate organic structure.

CHE 3190-4 Survey of Physical Chemistry (4 + 0) Prerequisites: CHE 3000, MTH 1410, PHY 2010

A survey of the principles of thermodynamics, equilibrium, atomic/molecular structure, electrochemistry, kinetics, quantum mechanics, and spectroscopy.

CHE 3200-1 Survey of Physical Chemistry Lab (0 + 3)

Prerequisites: CHE 3000, MTH 1410, PHY 2010

Laboratory explorations of key concepts in thermodynamics, equilibrium, kinetics, and electrochemistry. Technical writing is emphasized; students are expected to use a personal computer to complete lab reports.

CHE 3250-4 Physical Chemistry I (4 + 0)

Prerequisites: MTH 2420, PHY 2010 or PHY 2310; CHE 3000

A comprehensive study of the principles of gas dynamics, thermodynamics, solution properties, and electrochemistry.

CHE 3260-4
Prerequisites: Physical Chemistry II (4 + 0)
CHE 3250; PHY 2020 or PHY 2330

A comprehensive study of the principles of quantum mechanics, quantum chemistry, atomic structure, molecular structure, symmetry, and spectroscopy.

CHE 3280-2 Physical Chemistry Laboratory I (0 + 4)

Corequisite: CHE 3250

A laboratory study of the basic principles of gas dynamics, thermodynamics, equilibrium, and data-handling techniques.

CHE 3290-2 Physical Chemistry Laboratory II (0 + 4)

Corequisite: CHE 3260

A laboratory study of the basic principles of quantum mechanics and spectroscopy.

CHE 3400-1 Chemical Literature Search (1 + 0)
Prerequisites: CHE 3000, CHE 3010, CHE 3100

This course is designed to teach the student how to perform an in-depth chemical literature search. Handbooks, biological abstracts, Beilstein, primary literature, chemical abstracts, and citation indices will be covered. Both manual and computer-assisted searches will be performed.

CHE 3500-3 Occupational Safety (2 + 2)

Prerequisites: one year of chemistry, human physiology

This course will include a discussion of the principles of accident control; facility inspections; measurement and evaluation of physical hazards such as radiation and noise; ergonomics; handling of hazardous materials; fire control; and personal protective equipment. The elements of a comprehensive safety program will be studied.

CHE 3600-4 Crime Scene Investigation I (3 + 2)

Prerequisite: CHE 2700

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)

Prerequisites: CHE 2700, 3600

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 + 2)

Prerequisite: CHE 3110

This course introduces the theory and practice of physical evidence analysis. Topics covered include firearms, fingerprints, hairs and fibers, numbers restoration, shoe prints, arson, and paints.

CHE 3710-4 Criminalistics II (3 + 2)

Prerequisite: CHE 3700

This course is a continuation of CHE 3700. It introduces the theory and practice of chemical evidence analysis. Topics include controlled substances, toxicology, and serology.

CHE 3800-3 Personal Computers for Science (3 + 0)

Prerequisites: CHE 1800, CHE 1810, CHE 1850; CSI 1010 or CMS 1010

This course is designed to teach students to use existing software on IBM and IBM-compatible personal computers. Systems studied include MS DOS, desktop publishing, spreadsheet manipulation, database management, and graphics.

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.

CHE 4010-3 Advanced Organic Chemistry (3 + 0)
Prerequisite: CHE 3110 and CHE 3190 or CHE 3260

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)

Prerequisites: CHE 3110, CHE 3130; CHE 3190 or CHE 3260

A unified approach to classical and modern synthetic chemistry, including aspects of mechanism, and stereochemistry.

CHE 4100-3 Instrumental Analysis (3 + 0)

Prerequisites: CHE 3000, CHE 3010, CHE 3100; CHE 3190 or 3260

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 3260

Corequisite: CHE 4100

A study of instrumental methods, employing electromagnetic radiation, magnetic resonance, mass spectrometry, chromatography, and electrochemistry.

CHE 4150-4 Instrumentation and Analysis in the Occupational Environment (3 + 2)

Prerequisite: CHE 4100

The instruments used to sample and analyze potential occupational hazards will be described. Students gain experience in the calibration and use of direct-reading and field-sampling instruments.

CHE 4200-3 Evaluation and Control of Air Quality (2 + 2)

Prerequisite: CHE 4150

A continuation of CHE 4150. The concepts and techniques of sampling, evaluation, and control of airborne hazards are presented. Principles of ventilation are included.

CHE 4250-3 Principles of Occupational Health and Safety (3 + 0)

Prerequisite: CHE 4200

The general principles of recognition, evaluation, and control of occupational hazards are applied in solving field programs.

CHE 4300-3 Advanced Inorganic Chemistry (3 + 0)

Prerequisite: CHE 3190 or CHE 3260

A study of atomic and molecular structure, bonding and bond energies, coordination theory, x-ray crystallography, solvent systems, and periodic relationships of the elements.

CHE 4310-4 Biochemistry I (4 + 0)

Prerequisite: CHE 3100

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

Continuation of Biochemistry I (CHE 4310). 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.

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.

CHE 4500-3 Occupational Toxicology (3 + 0)

Prerequisites: CHE 4310 and MTH 3200, or permission of instructor

The various types of toxic substances are discussed with emphasis on modes of contact and entry of toxic agents, recognition of physiological effects, occupational diseases, toxic dosage, and exposure limits.

CHE 4650-4 Chemistry Work Experience/Cooperative Education (0 + 40)

Prerequisites: CHE 3010, CHE 3110

Laboratory field experience for students majoring or minoring in chemistry. A total of 600 hours of work experience will be required.

CHE 4700-7 Criminalistics Internship I (0 + 21)

Prerequisite: CHE 3710

Laboratory internship experience for criminalistics majors.

CHE 4710-7 Criminalistics Internship II (0 + 21)

Prerequisite: CHE 4700

Laboratory internship experience for criminalistics majors.

CHE 4750-8 Occupational Health and Safety Internship (0 + 24)

Prerequisites: senior standing and approval by the internship coordinator

A one-semester internship with local industry provides field experience for occupational health and safety majors.

CHE 4950-3 Senior Experience in Chemistry (3 + 0)

Prerequisites: senior standing; CHE 1810, CHE 3000, CHE 3110; either CHE 3190 or CHE 3250; and sat-

isfaction of Level I and II General Studies course requirements

A capstone experience for students seeking a major in chemistry. 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)

Chicano Studies

CHS 1000-3 Introduction to Chicano Studies (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests Introduces interdisciplinary analysis of the Chicano experience in the U.S. Incorporates research in history, the arts, sociology, anthropology, political science, education, medicine, and engineering to provide better academic skills in a competitive national and international atmosphere. (General Studies—Level II, Social Sciences; Multicultural)

CHS 1010-3

(HIS 1910) History of Meso-America: Pre-Columbian and Colonial Periods (3 + 0)

Prerequisites: CHS 1000, minimum performance standard scores on reading and writing preassessment

placement tests

Examines indigenous cultures of Meso-America during the pre-Columbian period, with a focus on social, 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)

CHS 1020-3

(HIS 1920) History of the Chicano in the Southwest: Mexico and U.S. Periods (3 + 0)

Prerequisites: CHS 1010 or permission of instructor; minimum performance standard scores on reading and

writing preassessment tests

A study beginning with the Mexican War of Independence (1810) and concluding with an in-depth study of the historical development of the contemporary Chicano world. Credit will be granted for only one prefix: CHS or HIS. (General Studies—Level II, Historical: Multicultural)

CHS 2000-3

(ANT 2360) Living Culture and Language of the Mexican and Chicano (3 + 0)

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: CHS or ANT.

CHS 2010-3

(ENG 2410) Survey of Chicano Literature (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

Reviews major literary genres associated with Chicano creative expression, including the poetry, drama, and the novel. Credit will be granted for only one prefix: CHS or ENG.

CHS 2020-3

(ENG 2420) Chicano Poetry and Drama (3 + 0) Prerequisite: CHS 2010 or permission of instructor

An intensive study of Chicano poetic and dramatic arts as it attempts to create a new reality. Provides a basic approach to poetry and drama as a craft through production. Credit will be granted for only one prefix: CHS or ENG.

CHS 2100-3

(AAS 2100, ICS 2100, NAS 2100, WMS 2100) Women of Color (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment tests; one of the following: AAS 1010, CHS 1000, ICS 1000, NAS 1000, or WMS 1010; 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, class, and ethnicity 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; religion; and politics. (General Studies—Level II, Social Sciences; Multicultural)

CHS 2110-3 The Chicano in Aztlan (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

Focuses on three major motifs associated with the socio-historical development of the Chicano in the Southwest: land, farm labor, and urban enclave.

CHS 2120-3

(HIS 2820) Mexico: Independence to Revolution, 1810-1910 (3 + 0)

Prerequisite: CHS 1010/HIS 1910

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.

CHS 2130-3 (HIS 2830)

(HIS 2830) Mexico: Revolution to the Present, 1910-1990s (3 + 0)

Prerequisites: CHS 1010/HIS 1910, CHS 2120/HIS 2820, or permission of instructor

Traces the social, political, cultural, and economic effects of the 1910 Revolution on 20th century Mexico. Describes the influence of the U.S. government and citizens on Mexico's history.

CHS 3010-3

(HIS 3830) The Mexican Revolution (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

Traces the social, political, and economic forces that contributed to the Mexican Revolution (1910-1920). Provides a critical analysis of how leaders, women, the Mexican masses, and the U.S. influenced revolutionary events.

CHS 3100-3

(SOC 3130) The Chicano Community (3 + 0)

Prerequisites: CHS 1000 or permission of instructor; satisfaction of Level I General Studies course require-

ments

An in-depth study of the history of community organizations, the process by which they came about, and information about organizations and their functions in the community. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences; Multicultural)

CHS 3200-3

(CJC 3720) Chicanos and the Law (3 + 0)

Prerequisite: CHS 1000 or CJC 1010 or permission of instructor and satisfaction of all General Studies

Level I course requirements

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 of these courses. (Multicultural)

CHS 3210-3

(SOC 3470) The Chicano Family (3 + 0)

Prerequisites: CHS 1000 or permission of instructor; and satisfaction of all Level I General Studies course

requirements

A study of the Chicano family as a social institution in its varying manifestations as it transmits knowledge for existence in a multicultural world. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences)

CHS 3300-3

(EDU 3120) Education of Chicano Children (3 + 0)

Prerequisite: CHS 2000

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 of these courses.

CHS 3400-3

(ENG 3480) The Chicano Novel (3 + 0)

Prerequisite: CHS 2010 or permission of instructor

Deals with origins, themes, and techniques that characterize the Chicano novel, while providing an in-depth study of the best examples of literary production in both Spanish and English. Credit will be granted for only one of these courses.

CHS 3410-3

(ENG 3490) Chicano Folklore of the Southwest (3 + 0)

Prerequisite: CHS 2000 or permission of instructor

Accents the study of oral and written folklore as a genre in Chicano history and culture. Focuses on 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.

CHS 3460-3 La Chicana (3 + 0)

Prerequisite: CHS 1000 or permission of instructor

Provides an in-depth analysis of the history and roles of Mexican-American women. 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.

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 4010-3 The Chicano Movement (3 + 0)

Prerequisite: CHS 1000, CHS 3100 or permission of instructor

Provides a perspective on the Chicano civil rights movement. Discusses the social conditions, civil rights issues, and direction of the movement in contemporary society.

CHS 4200-3

(ENG 4130) Seminar: Carlos Castaneda (3 + 0)

Prerequisite: junior or senior standing or permission of instructor

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 Chicano Studies (3 + 0)

Prerequisites: six hours of upper-division courses in Chicano studies or permission of instructor, satisfaction

of all Level I and Level II General Studies course requirements, and preferably senior standing

Enhances the development of research skills, theory construction, and application of theory to the discipline of Chicano studies. Requires an in-depth research project and a research paper on a selected topic. Emphasizes critical understanding of the literature and the writing of a research paper. Designed primarily for Chicano studies majors and minors. (Senior Experience)

Chinese

CHI 1110-3 Basic Conversational Chinese I (3 + 0)

This course presents the essentials of elementary Chinese through a conversational approach.

Basic Conversational Chinese II (3 + 0) CHI 1120-3

Prerequisite: CHI 1110 or equivalent, or permission of instructor

This course is a continuation of CHI 1110.

Civil Engineering Technology

Civil Technology (3 + 0)

Prerequisite: MTH 1110 (may be taken concurrently)

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.

CEN 1200-3 Technical Drawing I (1 + 4)

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.

CEN 1210-3 Technical Drawing II (1 + 4)

Prerequisite: CEN 1200

This course is a continuation of CEN 1200 and includes advanced problems in descriptive geometry, orthographics, axiometric and oblique projection, perspective, sectioning, dimensioning, and tolerancing.

CEN 2100-4 Structural Drawing (2 + 4)

CEN 1210 Prerequisite:

This course is designed to prepare the necessary drawings of structural members and connections, including engineering layouts and detail drawings.

CEN 2150-3 Mechanics I/Statics (3 + 0)

Prerequisite: MTH 1410 (may be taken concurrently)

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.

CEN 2210-3 Architectural Drawing (1 + 4)

Prerequisite:

This course introduces architectural working drawings, including the development of plans, sections, elevations, and details.

CEN 3100-3 Construction Methods (3 + 0)

Prerequisite: junior standing

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 analyses of heavy earthmoving equipments, 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.

CEN 3110-3 Construction Estimating (3 + 0)

Prerequisite: junior standing

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.

CEN 3120-3 Engineering Economy (3 + 0)

Prerequisite: junior standing

This course examines the "time value of money" as a basis for evaluating economic alternatives required in engineering decision-making.

CEN 3130-3 Mechanics of Materials (3 + 0)

Prerequisites: CEN 2150, MTH 2410 (MTH 2410 may be taken concurrently)

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.

CEN 3140-1 Mechanics of Materials—Laboratory (0 + 1)

Prerequisites: CEN 2150, 3130 and MTH 2410, (CEN 3130 should be taken concurrently)

This course is a laboratory course to accompany the lecture course CEN 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.

CEN 3160-3 Mechanics II—Dynamics (3 + 0)

Prerequisites: CEN 2150, MTH 2410 (MTH 2410 may be taken concurrently)

This course covers the principles of dynamics: kinematics, the study of the geometry 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.

CEN 3170-3 Introduction to Structural Analysis (3 + 0)

Prerequisite: CEN 3130

This course presents first principles of structural analysis applied to statically determinate and indeterminate structures.

CEN 3180-3 Fluid Mechanics I (3 + 0)

Prerequisite: CEN 3160

This course covers physical properties of fluids, hydrostatics, kinematics, and dynamics of fluid flow, flow measurements, flow in pipes and open channel, dynamic force, and momentum.

CEN 3190-3 Fluid Mechanics II (3 + 0)

Prerequisite: CEN 3180

This course focuses on the study of the hydrologic cycle, rainfall and runoff, water losses, snowmelt, groundwater, unit hydrograph, floods and flood routing, streamflow records, frequency duration, and water resources planning.

CEN 3200-3 Advanced Technical Drawing (1 + 4)

Prerequisite: CEN 1200, CEN 1210, or permission of instructor This course is designed to develop advanced skills in technical drawing.

CEN 3320-3 Environmental Impact Statements (3 + 0)

Prerequisite: junior standing or permission of instructor

This course is a study of the physical and legal requirements of the environmental impact assessment process. Students will learn to do information research and prepare a draft environmental impact statement.

CEN 3330-3 Environmental Technology Processes (2 + 2)

Prerequisites: CHE 1800, junior standing

This course covers chemistry basics, acid-base reaction, biochemical process 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.

CEN 4120-3 Concrete Design I (3 + 0)

Prerequisite: CEN 3170

This course is a basic introduction to the fundamental principles of reinforced concrete design.

CEN 4130-3 Soils Mechanics (2 + 2) Prerequisites: CEN 3130, CEN 3180

This course covers soil properties and soil characteristics, as well as methods of sampling and analysis. Students will analyze variations in behavior under different loading conditions.

CEN 4140-3 Concrete Design II (3 + 0)

Prerequisite: CEN 4120

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.

CEN 4150-3 Highway Engineering (3 + 0)

Prerequisite: CEN 4120

This course is a specialized course in requirements, functional characteristics, and system characteristics of highway design. Develops design methods, procedures, and analysis for pavement design, roadway alignment, and user information for freeways, city arterials, and rural roadways.

CEN 4400-3 Steel Design I (3 + 0)

Prerequisite: CEN 3170

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.

CEN 4410-3 Steel Design II (3 + 0)

Prerequisite: CEN 4400

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.

CEN 4500-3 Water Supply and Treatment (3 + 0)

Prerequisites: CEN 3190, CEN 3330

This course is a study of water supply systems, including sources of supply, potability, quantity requirements, treatment plant design, and plant operation.

CEN 4510-3 Wastewater Treatment and Disposal (3 + 0)

Prerequisite: CEN 4500

This course consists of studies in sanitation, with emphasis on liquidand solid-waste disposal. Includes fundamentals of collection, treatment, plant design, and plant operations.

CEN 4600-3 Senior Seminar (3 + 0)

Prerequisites: CEN 3170; CEN 3180 may be taken concurrently; satisfaction of Level I and Level II Gen-

eral Studies course requirements and senior standing

This course is required for graduating seniors in civil engineering technology. The student reviews and assesses the fundamental principles of civil engineering technology. A minimum grade of "C" is required for graduation.

Computer Information Systems and Management Science

CMS 1010-3

(CSI 1010) Introduction to Computers (3 + 0)

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.

CMS 1080-3

(CSI 1080) The World Wide Web, the Internet and Beyond (3 + 0)

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.

CMS 1110-1 Computer Literacy and DOS (self-paced) (0 + 2)

This is a self-paced course in computer literacy and the use of DOS (Disk Operating System). Computer literacy deals with the basic nomenclature of the computer. The DOS portion focuses on gaining hands-on expertise in fundamental DOS commands, such as formatting and copying disks, setting up directory structures, and creating batch files. The primary learning vehicles are videotapes, text-based tutorials, and hands-on exercises.

CMS 1120-1 Word Processing with WordPerfect (self-paced) (0 + 2)

Prerequisite: CMS 1110 or equivalent experience

This is a self-paced course in the use of the WordPerfect word processing program on a personal computer. It covers fundamental skills such as creating, editing, and printing a document; creating form letters and merge files; and embedding graphics in documents. The primary learning vehicles are videotapes, text-base tutorials, and hands-on exercises.

CMS 1130-1 Spreadsheets with Lotus 1–2–3 (self-paced) (0 + 2)

Prerequisite: CMS 1110 or equivalent experience

This is a self-paced course in the use of Lotus 1–2–3. It covers fundamental skills such as creating a spreadsheet, using the Lotus command structure, creating graphics, and creating macros. The primary learning vehicles are videotapes, text-base tutorials, and hands-on exercises.

CMS 2010-3 Computer Applications for Business (3 + 0)

Prerequisites: computer literacy as evidenced by a previous course in high school or college or by appro-

priate work experience

This course is an introduction to business information systems from the end-user's perspective. It includes instruction in: (1) computer hardware and software, (2) use of computer software productivity tools including systems software and application software (word processing, computer communication using e-mail and Internet, data management and analysis with spreadsheets), and (3) introduction to transaction processing systems as the fundamental level of business information systems. Note: This course is primarily intended for students with majors in the School of Business.

CMS 2110-3 Business Problem Solving: A Structured Programming Approach (2 + 2)

Prerequisite: CMS 2010

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.

CMS 2230-3 Word Processing (3 + 0)

Prerequisite: Typing skill of at least 40 wpm

This course is designed to give students in-depth, hands-on experience with word processing software and to acquaint the students with other aspects of the "electronic office."

CMS 3050-3 Fundamentals of Systems Analysis and Design (3 + 0)

Prerequisite: CMS 2010

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.

CMS 3060-3 File Design and Data Base Management (3 + 0)

Prerequisite: CMS 3050

The course covers the current status of data base system implementation. Functional characteristics, such as file design, are examined in detail. Guidelines are developed that will aid in evaluation of vendor-supplied data base management systems or specification of an in-house system.

CMS 3090-3 Operating Systems and Control Language (3 + 0)

Prerequisite: CMS 2140 or permission of instructor

This course covers computer operating systems, other systems software, and machine-dependent principles involved in the use of computers. Emphasis is placed on IBM System/370 architecture. OS/370 Job Control Language is used to run jobs.

CMS 3110-3 Structured COBOL (3 + 0)

Prerequisite: CMS 2110

This is a course in computer programming using comprehensive COBOL syntax in teaching problem solving in a business systems environment. Problems are selected to illustrate structured systems development for a comprehensive business system that requires the implementation of COBOL syntax and techniques for their solution.

CMS 3120-3 BASIC Programming and Graphics for Computers (3 + 0)

Prerequisite: CMS 2010

This course covers the use of graphical presentation of business information. Programs are written using the graphics extensions to standard programming languages, line graphs, bar charts, pie charts, and other graphics presentations will be created and their value explored. High level graphics languages will also be studied.

CMS 3130-3 Business Applications in C and UNIX [3 + 0)

Prerequisites: CMS 2110, or proficiency in a computer programming language, or permission of the instructor This course covers the major elements of the C programming language and the UNIX operating system commands used for software and system development. Typical business computer program requirements are used to illustrate and practice problem-solving, software design using structured design tools, and computer program development.

CMS 3140-3 Advanced Assembler Languages (3 + 0)

Prerequisite: CMS 2140

This is an advanced course in computer programming that uses the IBM 370 and its basic assembly language (BAL) to explore programming concepts. Topics include buffered I/O; the Assembler as a prototypical computer program; organization of the object modules and load-modules; the influence of data structures on code optimization; standard macros and macro writing; dump reading; design and implementation of a disassembler program; floating point arithmetic; and debugging techniques.

CMS 3180-3 Business Applications in OOP: C++ (3 + 0)

Prerequisite: CMS 3130

This course introduces the student to the concepts of object-oriented programming in a business environment using C++. It includes classes and objects, inheritance and derived classes, polymorphism, virtual classes and functions, and several advanced topics.

CMS 3220-3 Analysis of Computer Hardware and Software (3 + 0)

Prerequisite: CMS 3050

A study of various computer systems (both hardware and software) in relation to information system requirements. Comparisons of costs, capabilities, and software support will be made.

CMS 3230-3 Telecommunication Systems (3 + 0)

Prerequisite: CMS 3050

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.

CMS 3240-3 Computer Auditability and Control (3 + 0)

Prerequisites: CMS 3050 and ACC 2020

A study of the fundamentals of preventing and/or detecting attempts to compromise computer systems. Basic principles of creating systems that augment successful computer security and control are discussed.

CMS 3250-3 Automated Office Systems (3 + 0)

Prerequisite: CMS 2010

This course presents an overview of the electronic equipment available for use in business systems. Some of the technologies are word processing, telecommunications, phototypesetting, and local area networks.

CMS 3260-3 Systems Development with GUI Development Tools (3 + 0)

Prerequisite: CMS 2110 or permission of the instructor

This course introduces the student to contemporary systems development tools for the Graphical User Interface (GUI). It includes the structure and processes of the GUI environment, several kinds of GUI design tools, what the tools accomplish (including their capabilities and limitations), and when and where to use a GUI system development tool.

CMS 3270-3 Micro Based Software (3 + 0)

Prerequisite: CMS 2010

A study of microcomputer-based software including advanced concepts of word processing, electronic spreadsheets, database management software, and the introduction of other relevant software packages used in a microcomputer environment. Hands-on experience is included.

CMS 3280-3 LAN and WAN Systems for Business (3 + 0)

Prerequisite: CMS 3230

Presents the technology, architecture, and interconnection of Local Area Networks and Wide Area Networks. The advantages and disadvantages of each technology will be discussed so that well-informed decisions can be made regarding the design of communication networks.

CMS 3290-3 Micro User Operating Systems (3 + 0)

Prerequisites: CMS 2010 and basic computer knowledge

Involves the hands-on use of Advanced DOS, Microsoft Windows, and Novell Netware on IBM/compatible microcomputers.

CMS 3300-3 Principles of Quantitative Management Systems (3 + 0)

Prerequisites: MTH 1310, MTH 1320

Covers the application of statistical inference and translation of quantitative data into information that can be used in business decision making. Covers the topics of index numbers, learning curves, confidence intervals, tests of hypotheses, quality control, and regression and correlation analyses, etc., in the context of production and operations management skills needed by American industry.

CMS 3310-3 Business Forecasting Methods (3 + 0)

Prerequisite: CMS 3300

A study of linear and multiple regression, time series forecasting, index number calculation, and analysis.

CMS 3320-3 Quantitative Decision-Making (3 + 0)

Prerequisite: CMS 3300

Designed to develop the student's ability to use basic theory and management science techniques. Includes construction of payoff tables, Baysian statistics, inventory and production control, and linear programming methods.

CMS 3400-3 Simulation of Management Processes (3 + 0)

Prerequisite: CMS 3320

A study of computer simulation techniques as applied to resources allocation problems in the business environment.

CMS 3610-3 Introduction to Artificial Intelligence for Business (3 + 0)

Prerequisites: CMS 2010 and proficiency in a programming language

An introduction to the field of applied artificial intelligence/expert systems and its importance in the business environment. Topics include human intelligence and business problem solving, knowledge representation strategies, expert systems design, the knowledge engineering process, robotics, voice recognition systems, and the future of applied artificial intelligence/expert systems in business and industry.

CMS 4050-3 Advanced Systems Analysis and Design Seminar (3 + 0)

Prerequisites: CMS 3060 and CMS 3220

A business information systems problem will be analyzed. A complete technical design document will be prepared utilizing the steps of the System Life Cycle: Definition and Design. The design document will be used as a basis for systems development in CMS 4070.

CMS 4060-3 Advanced Data Base Systems (3 + 0)

Prerequisites: CMS 3060 and CMS 2110 (or advanced programming language course); senior standing This course provides an in-depth understanding of data base management systems. Several commercially available data base systems are examined and compared. Data definition and data manipulation languages will be discussed and the opportunity to design and implement a data base is provided.

CMS 4070-3 Systems Development and Implementation (3 + 0)

Prerequisites: CMS 4050 and an advanced programming language, senior standing

This course is designed to provide a realistic environment for a student to develop and implement a system from a design. The student will write programs, convert data, test, and produce a working system.

CMS 4160-3 Advanced Programming Seminar (3 + 0)

Prerequisite: CMS 3110 or CMS 3140

Major business-related projects will be analyzed, coded, and tested.

CMS 4390-3 Case Studies in Management Science (3 + 0)

Prerequisites: CMS 3270 and CMS 3320, senior standing

This course involves a study of the implementation of management science models and their interrelationship to other factors in an information system.

CMS 4410-3 Management Information Systems (3 + 0)

Prerequisites: CMS 3050, CMS 3320, MGT 3000

This course involves a review of management systems, structures, and functions and an introduction to managerial decision-making styles. The course includes development of the nature and form of information processing systems, databases, and delivery systems. Decision Support Systems and Expert Systems will be discussed as components of Management Information Systems.

Computer Science

Computer Science courses use the CSI prefix and are taught through the Department of Mathematical and Computer Sciences.

CSI 1010-3

(CMS 1010) Introduction to Computers (3 + 0)

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.

CSI 1020-2 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 programs selected from mathematics and other sciences.

CSI 1080-3

(CMS 1080) The World Wide Web, the Internet and Beyond (3 + 0)

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.

CSI 1300-4 Introduction to Structured Programming (4 + 0)

Prerequisites: CSI 1010 and MTH 1110 or their equivalents

Introduction to Structured Programming is the first course in the computer science core sequence. Students will learn a modern structured programming language and the basic skills needed to analyze problems and construct programs for their solution. The emphasis of the course is on the techniques of algorithm development and programming style, including top-down design and structured programming methods. Students are also introduced to the fundamentals of software engineering and the software development life cycle.

CSI 2220-3 The C Programming Language (3 + 0)

Prerequisites: CSI 1300 or MTH 1510 or previous knowledge of a programming language, and MTH 1110 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. This course may not be applied for credit toward the computer science major or minor.

CSI 2250-4 The C++ Programming Language (4 + 0)

Prerequisites: CSI 1300 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. This course may not be applied for credit toward the computer science major or minor.

CSI 2300-4 Advanced Programming and Data Structures (4 + 0)

Prerequisite: CSI 1300 with a grade of "C" or better, or permission of instructor

This course, a continuation of CSI 1300, 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, records and files, 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.

CSI 2400-4 Computer Organization and Assembly Language (4 + 0)

Prerequisite: CSI 1300 with a grade of "C" or better, or permission of instructor

This course is a study of the internal organization of computing machinery and the hardware elements essential to the computation process. Various forms of computer organization are studied and analyzed. The vehicle for exploration of the computer hardware is Assembly language that provides specific instructions for the direct manipulation of the memory registers and control flags associated with virtually all modern computers.

CSI 2610-4 Computer Programming for Educators (4 + 0)

Prerequisites: CSI 1010 and a course in trigonometry or equivalent

This course is an introduction to computer programming designed specifically for K-12 educators. The course is designed to prepare students to use computer programming as a tool for teaching, and to teach beginning programming in the schools. Students will learn BASIC and LOGO in a structured programming environment.

CSI 3060-4 Computer Architecture and Systems Programming (4 + 0)

Prerequisites: CSI 2300 and CSI 2400 with grades of "C" or better, or permission of instructor In this course, computer organization concepts are extended to include advanced architectural concepts. These concepts include set associative caches, advanced pipelining concepts for superscalar and superpipelined processors, bus interface concepts, microprogramming concepts, parallel architectures, multiprocessing architectures, memory organization architectures, interrupt architectures, and bus data transfer concepts. Supporting systems programming topics are also covered as a basis for studying operating systems.

CSI 3100-4 Discrete Mathematics (4 + 0)

Prerequisites: MTH 2410 and CSI 2300 with a grade of "C" or better, or permission of instructor Discrete mathematical structures including sets, digraphs, Boolean algebra, relations, finite state automata, regular languages, and error correction codes are covered along with their applications to areas of computer science.

CSI 3120-4 Organization and Structure of Operating Systems (4 + 0)

Prerequisites: CSI 3060 with a grade of "C" or better, or permission of instructor

This course is an introduction to the design, development, and implementation of modern computer operating systems, including network systems. The topics covered include input/output processors, interrupt handling, system resource management, multitasking, communication between machines and processes, and computer system security.

CSI 3210-4 Principles of Programming Languages (4 + 0)

Prerequisites: CSI 2300 and CSI 3100 with grades 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 block-structured languages and static and dynamic scoping as methods for defining program object visibility are studied in depth. All four of the modern programming language paradigms (procedural, functional, object-oriented, and logical) will be reviewed. The design, evaluation, and implementation of programming language processors such as interpreters, compilers, and translators are studied.

CSI 3280-4 Object-Oriented Software Development (4 + 0)

Prerequisite: CSI 2300 with a grade of "C" or better, or permission of instructor

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.

CSI 3300-4 Foundations of File Structures (4 + 0)

Prerequisites: CSI 2300 and CSI 2400 with grades of "C" or better, or permission of instructor

This course explores the fundamental concepts associated with external storage media and the methods of organization, storage, and retrieval of data on peripheral devices. Various file-structuring schemes are compared and contrasted in order to develop an in-depth understanding of the most efficient methods for given situations. Students will gain experience with internal storage management and a wide variety of sequential and random access methods of file organization and structure.

CSI 3310-4 Fundamentals of Database Systems (4 + 0)

Prerequisites: CSI 3100 and CSI 3300 with grades of "C" or better, or permission of instructor

This course is the second in a two-course series on the external organization and retrieval of information. It builds on the base laid in CSI 3300, Foundations of File Structures, by extending the capabilities of the students into the area of developing database management systems. Students will study the three principal models for database organization (relational, hierarchical, and network). They will also be introduced to the major issues in database management systems development and operation. The emphasis will be on the relational model because of its widespread popularity among computer users. Examples will be constructed using the object-oriented paradigm.

CSI 3510-4 Computer Graphics (4 + 0)

Prerequisites: CSI 2300 with a grade of "C" or better, MTH 1410, and either MTH 2140 or MTH 3140, or

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.

CSI 4120-4 Foundations of Artificial Intelligence (4 + 0)

Prerequisite: CSI 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, plangenerating 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.

CSI 4190-4 Software Development and Engineering for Technical Writers (4 + 0)

Prerequisite: COM 2610 or permission of instructor

This course entails the comprehensive study of the software development process. Each phase of the software development process is studied in depth. Special emphasis is made on the documentation intensive phases of requirements definition, specifications, development, and design methodologies. Students will participate as documenters on teams that will exercise the complete software life cycle on selected projects. This course may not be applied for credit toward the computer science major or minor.

CSI 4250-4 Software Engineering Principles (4 + 0)

Prerequisite: CSI 3300 with a grade of "C" or better, COM 2610, PHI 3360, and senior standing, or per-

mission 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.

CSI 4260-4 Software Engineering Practices (4 + 0)

Prerequisites: CSI 4250 with a grade of "C" or better

This course is a continuation of CSI 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)

CSI 4300-4 Advanced Data Structures and Algorithm Analysis (4 + 0)

Prerequisites: CSI 3100, CSI 3300 with grades of "C" or better and MTH 3210, or permission of instructor This course continues the study of data structures begun in CSI 2300. Extensive concentration is placed on the concept of the abstract data type (ADT). A wide variety of abstract data types are studied including linear and nonlinear ADTs. The emphasis is on the design, analysis, and evaluation of efficient algorithms for a wide variety of common computing problems.

CSI 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.

Criminal Justice and Criminology

CJC 1000-3 Tell Us About the Law (3 + 0)

A citizen's look at the complex legal society in which we live. An introduction to the various courts, legal agencies, and legislative bodies that are available to each citizen in their attempt to live harmoniously in today's urban environment.

CJC 1010-3 Introduction to the Criminal Justice System (3 + 0)

The American criminal justice system: its problems and reactions to prevailing social forces. The continuum of criminal justice from police, through the courts, to corrections is surveyed to provide a background for more indepth study in later courses.

CJC 1100-3 Evolutionary Legal Concepts in Criminal Justice (3 + 0)

Evolution of crucial legal tools and concepts in the criminal justice process, common and statutory law, trial and appellate court, grand and trial jury, police and citizen, prosecutor and defense attorney, legal insanity, and other areas, with emphasis on their historical impact.

CJC 2010-3 Introduction to Private Security (3 + 0)

An introduction to security and loss prevention in proprietary and governmental institutions. An overview of the historical, philosophical, and legal basis of private security and its role in modern society. Pertinent operational aspects of resources protection.

CJC 2100-3 Substantive Criminal Law (3 + 0)

Prerequisite: CJC 1010

Common law crimes and procedures; statutory crimes. Definitions and distinctions between criminal and civil law; criminal court procedures; assigned criminal law reading; federal and state reports; Colorado Criminal Code sections.

CJC 2120-3 Evidence and Courtroom Procedures (3 + 0)

Prerequisite: CJC 1010

Surveys the nature, kinds, and effect of evidence; rules governing admissibility; testimony of lay and expert witnesses; taking and use of confessions; limitations on search and seizure; hearsay rules and exceptions; becoming an effective witness; and direct- and cross-examination techniques.

CJC 2140-3 Criminal Procedure (3 + 0)

Prerequisite: CJC 2100

A survey of the procedural law governing due process from arrest through final appeal.

CJC 2150-3 Municipal Law (3 + 0)

Prerequisite: CJC 1100 or enrollment in area of emphasis I

Examines the municipal laws and codes relevant to the urban society; the origins and enactment of municipal codes; common challenges to the legality of municipal authority; enforcement modalities; and creative horizons in municipal law of the future.

CJC 2200-3 Law Enforcement Operations (3 + 0)

An in-depth examination of the complexity and multidimensional aspects of police work in modern America. Reviews the role and function of the police within the occupational, social, political, and organizational context.

CJC 3100-3 Logic and the Law (3 + 0)

Prerequisites: CJC 1010, CJC 1100, CJC 2100

This course examines the public purpose behind the law, basic legal research, statutory and case law in relation to legal statements, vocabulary, and semantic origin. Character traits, contemporary ethics, and implications and consequences of various courses of legal action are analyzed.

CJC 3120-3 Constitutional Law (3 + 0)

Prerequisite: CJC 1010

Examines the U.S. Constitution and the function of the U.S. Supreme Court in interpreting that document. Includes readings of decisions in the areas of speech, religion, civil rights, privacy, and other fundamental rights, with special emphasis on cases affecting criminal justice.

CJC 3140-3 Juvenile Law (3 + 0)

Prerequisite: CJC 1100

Presentation and analysis of the social-legal operation of the juvenile court, substantive and due process rights of minors; the family court act and legal reasoning underlying juvenile law operating at all levels of government.

CJC 3200-3 Criminal Justice Administrative Behavior (3 + 0)

Prerequisite: CJC 1010 or enrollment in area of emphasis IV

This course is a comprehensive analysis of criminal justice institutions, their problems, management, and administration. Roles and values in management, administrative alternatives, and the role of the manager as an agent of change are studied. A critical evaluation of past and present approaches to problem solutions is examined.

CJC 3250-3 Criminal Justice Delivery of Services and Decision-Making (3 + 0)

Prerequisite: CJC 3200 or permission of instructor

Reviews and analyzes the techniques of decision making for the assessment of probable outcomes of criminal justice policies. Emphasizes examination of factors influencing policy making and the management of the decision process, as these impact the delivery of criminal justice services.

CJC 3280-3 Classification and Treatment of the Offender (3 + 0)

Prerequisite: CJC 1010 or enrollment in area of emphasis II

Criminal offender classification concepts, principles, and techniques; interview, case diagnosis, and use of testing programs as classification aids; reception and diagnostic centers; principles of the treatment process; and treatment approaches.

CJC 3290-3 Probation and Parole (3 + 0)

Prerequisite:

The history, development, principles, and operation of probation and parole; selection, supervision, prediction of success; experimental programs and current trends; preparation of a presentence investigation report.

Counseling Skills for Corrections Personnel (3 + 0)

CJC 3280, CJC 3290, or permission of instructor Prerequisites:

An examination of the special problems and needs of the adult offender. Examines theory and practice techniques that are effective in assessing and creating a positive counseling milieu for the offender both within and outside the prison setting. Also includes the development of skills for successful counseling of the offender.

CJC 3350-3 Seminar in Delinquency Causation, Prevention and Control (3 + 0)

CJC 1010 or permission of instructor Prerequisite:

Explores the nature and causes of delinquency and crime, personality, and societal processes. An introduction to the typological analysis of juvenile delinquency and an examination of the concepts of prediction, prevention, and control.

CJC 3400-3 Criminal Behavior and Criminal Careers (3 + 0)

CJC 3350 Prerequisite:

Examines the incidence of characteristics of criminal behavior, including biological, psychological, social, and cultural links to deviant and antisocial behavior. Also explores the development of criminal self-conceptions. A research document (typology) employing statistical and qualitative analysis linking the bio-psychosocial aspects of criminal behavior is required.

CJC 3410-3 Criminal Justice and the Social Structure (3 + 0)

Prerequisites: CJC 1100

Examines the criminal justice systems in relation to social power, class structure, ecological patterns, subcultural developments, and processes of change in the community and in the criminal justice structure. It evaluates the ambivalence in the social processes of law enforcement, courts, and corrections, and the problems of professionalization.

CJC 3450-3 Behavior Development and Treatment Plans (3 + 0)

Prerequisite:

Behavior modification principles and techniques for paraprofessional correctional workers and probation officers are studied. Course provides step-by-step instruction plus critical ethical and legal issues.

CJC 3500-3 Criminal Investigation (3 + 0)

Prerequisite: CJC 2120 or permission of instructor

The history, purpose, techniques, and evidentiary uses of criminal investigation.

Drug Abuse: Legal Issues and Treatment (3 + 0) CJC 3510-3

Prerequisites: junior or senior 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.

Civil Law for Criminal Justice Administration (3 + 0) CJC 3700-3

A study of the fundamental concepts found in civil law, with an emphasis on civil liability of criminal justice practices. It is designed to help people in criminal justice and related fields to plan for and prevent civil liability or to deal with it when it arises.

CJC 3710-3

(WMS 3310) Women and the Law (3 + 0)

Prerequisite: WMS 1010 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 3720-3

(CHS 3200)

Chicanos and the Law (3+0) CHS 1000 or CJC 1010 or permission of instructor and satisfaction of all General Studies Prerequisite:

Level I course requirements

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. (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 Title) (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 implementations. May be repeated under different titles.

CJC 4100-3 Advanced Jurisprudence (3 + 0)

Prerequisites: CJC 2100, CJC 2120, CJC 3120, or enrollment in area of emphasis IV

The following items are studied: analysis and synthesis of legal concepts, nature of law and justice, selected models of legal reasoning, evolution of common law and civil law systems, and comparative study of current Anglo-American and European juristic thought. Special emphasis is placed on modern realism and criminal justice.

CJC 4300-3 Penology (3 + 0)

Prerequisite: CJC 1100

The history and development of the American system of prisons; the irimate and the prison community; custody, discipline, treatment, and prison programs for reformation and re-education; and alternatives to incarceration.

CJC 4310-3 Correctional Law (3 + 0)

Prerequisites: CJC 1010, CJC 2100, CJC 2140, CJC 3120 or 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)

Prerequisite: 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 Special Topics in Law Enforcement (3 + 0)

Prerequisite: senior standing

An examination of selected problems, philosophies, and practices affecting criminal justice agencies. Emphasis is on the critical evaluation of contemporary standards in the administration of law enforcement and their role in fulfilling societal objectives and expectations. It will explore problems in-depth, with emphasis on comprehensive reading, observation, and logical problem solving in law enforcement related policies.

CJC 4420-5 Practicum in Corrections (3 + 4)

Prerequisite: permission of instructor or enrollment in area of emphasis II

A practicum incorporating various aspects of the correctional system through workshops, field trips, mock hearings, and supervised tasks at correction agencies to further develop skills in administrative and human resource management.

CJC 4430-3 Comparative Criminal Justice (3 + 0)

Prerequisite: CJC 1010 or enrollment in area of emphasis IV

Survey of nationwide and worldwide criminal justice philosophies and practices, contemporary studies of criminal justice organizations, and legal systems in major Western and emerging nations.

CJC 4610-3 Special Topics in Criminal Justice Administration (3 + 0)

Prerequisite: junior or senior standing or enrollment in area of emphasis IV

Involves an in-depth exam of the major issues confronting criminal justice and their impact on the administration of criminal justice agencies. Emphasis is on the identification and analysis of problems and the applicability of various approaches for their solutions, with special emphasis on emergency problems not addressed elsewhere in the curriculum.

CJC 4620-3 Special Topics in Corrections Administration (3 + 0)

Prerequisites: senior standing and permission of instructor

An in-depth study of corrections problems, procedures, or proposals selected in consultation with and approved by the instructor. The study must be one which will provide a meaningful learning experience for the student in an area in which student input can make a contribution. Whenever practicable, the study will involve work with a correctional agency, in addition to research and writing.

CJC 4650-3 Ethics for the Criminal Justice Professional (3 + 0)

Prerequisites: CJC major or minor, senior standing, satisfaction of all Level I and Level II General Studies

course requirements

An in-depth analysis of ethical issues confronting the modern criminal justice professional. Examines current issues in the light of classical and contemporary standards. Students are required to demonstrate an understanding of the symbiotic nature of ethics, morality, and legality through thoughtful application of written and oral skills in the resolution of policy implementation and role conflict. (Senior Experience)

CJC 4660-1–15 Youth Advocacy Initiatives (0 + 3-45)

Prerequisite: permission of department chair

Course is designed to broaden the educational experience of youth advocacy students by giving them an opportunity to work with practitioners in the field. Students are assigned to juvenile institutions, shelter care programs, social services, and division programs, both federal and state. Students receive training and experience in the fundamentals of evaluation, treatment, and dynamic relationships in assigned settings. Students may register more than once for this course in different areas of interest, but for no more than 15 hours total credit.

CJC 4670-5 Research Seminar in Criminal Justice Administration (3 + 4)

Prerequisite: senior standing (must be arranged during junior year)

The application of research methods to the criminal justice administrative process; the tools, techniques, and methods of research; and writing the research report.

CJC 4750-3 Crime Prevention and Loss Reduction (3 + 0)

Prerequisite: 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 prevention systems and loss-reduction strategies.

Economics

ECO 2010-3 Principles of Economics—Macro (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics requirement and either ENG 1010 or the Level I

Communications course

Introduction to the principles of economics, emphasizing an analysis of the economy as a whole. Topics include the methods used in economics, national income accounting, income determination, and an analysis of monetary and fiscal policies used by government to combat inflation and unemployment, and preliminary international trade analysis. (General Studies—Level II, Social Sciences)

ECO 2020-3 Principles of Economics—Micro (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics requirement and either ENG 1010 or the Level I Com-

munications course

Introduction to the principles of economics, with an emphasis on individual economic units. Topics include consumer choice, production theory, theory of the firm, problems on economic efficiency, and problems of economic concentration. (General Studies—Level II, Social Sciences)

ECO 3010-3 Intermediate Microeconomic Theory (3 + 0)

Prerequisites: ECO 2010, ECO 2020

Production, price, and distribution theory. Value and distribution theories under conditions of varying market structures. Topics include consumer theory; competitive, oligopoly, and monopoly pricing and output behavior; pricing or factors of production and welfare theory.

ECO 3020-3 Intermediate Macroeconomic Theory (3 + 0)

Prerequisites: ECO 2010, ECO 2020

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, ECO 2020 and MTH 1210 or CMS 3300 or permission of instructor

Application of 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, ECO 2020

Historical trends in American economic organizations and institutions and their development from colonial times to 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 3350-3 Urban Economic Analysis (3 + 0)

Prerequisite: ECO 2020

Analysis of the structure of urban economic activity and the economic aspects of urban problems. Particular emphasis is on urban poverty, location and differential growth rates of cities, urban transportation problems, housing problems, and selected problems in local government finance.

ECO 3450-3 Environmental Economics (3 + 0)

Prerequisite: ECO 2020

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 2010, ECO 2020

Deals with the application of 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 that have significant economic consequences, both for the firm and the society at large.

ECO 3550-3 The International Economy (3 + 0)

Prerequisites: ECO 2010, ECO 2020

Fundamental economic concepts for understanding international economic relationships. Topics 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 4150-3 Mathematical Economics (3 + 0)

Prerequisite: ECO 3150 or permission of instructor

Mathematical analysis of economic theory. Topics include a wide range of mathematical techniques applied to economic topics such as theory of choice, externalities and public goods, general equilibrium, growth, and stability.

ECO 4250-3 Economics of Collective Bargaining (3 + 0)

Prerequisites: ECO 2010, ECO 2020

An examination of the economic aspects and effects of labor unions and collective bargaining. Topics include models of union behavior; bargaining theories; industrial wage differentials; economic consequences of public unionism and the impact of trade unions on employment, output, and inflation.

ECO 4300-3 Public Finance (3 + 0)

Prerequisites: ECO 2010, ECO 2020

An analysis of the effects of taxation, government expenditures, fiscal policy, and public debt on resource allocation and income distribution. Topics include 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: ECO 2010, ECO 2020

An examination of the structure, conduct, and performance of American 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 Trade and Finance (3 + 0)

Prerequisites: ECO 3550 and FIN 3100

General equilibrium analysis provides foundations 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)

Prerequisites: ECO 2010

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 4550-3 Comparative Economic Systems (3 + 0)

Prerequisites: ECO 2010, ECO 2020

An institutional and theoretical analysis of alternative economic systems. Topics include an analysis of the theoretical Marxian system, as well as a comparison of capitalism, socialism, and communism.

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 Monetary Theory (3 + 0)

Prerequisite: ECO 3020

An analysis of 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, examination of portfolio balance models, and international models.

ECO 4700-3 Law and Economics (3 + 0)

Prerequisites: ECO 2010, 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 effect of legal analysis on economic institutions, economic analysis of law, and selected topics in negotiation.

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)

Prerequisite: upper-division standing or permission of instructor and a minimum of four courses completed

in major

Corequisite: Must be taken concurrently with EDS 3120

Includes an analytical assessment of teaching/learning processes, with special emphasis on multicultural urban secondary schools. Addresses issues of human relations and classroom management to meet individual students needs in diverse contexts. Special emphasis will be placed on the roles that the teacher as a decision-maker must play in urban schools to meet the educational needs of learners from multicultural and diverse backgrounds. (Multicultural)

EDS 3120-3 Field Experiences in Multicultural Urban Secondary Schools (1 + 4)

Prerequisite: upper-division standing or permission of instructor and a minimum of four courses completed

in major

Corequisite: Must be taken concurrently with EDS 3110

Provides the teacher candidate with an opportunity to apply coursework to making appropriate decisions in multicultural urban secondary schools.* During this 60-hour field placement, teacher candidates learn about learners, their schools, and their communities. Weekly seminars address the decisions teachers make to meet the diverse educational needs of the student. Teacher candidates reflect upon educational issues with peers and instructor during a one-hour session weekly.

*A school must have a sizable minority student population.

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 course requirements

Emphasis on making appropriate decisions to meet the developmental needs of diverse children and adolescents. 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 Secondary School Curriculum and Classroom Management (3 + 0)

Prerequisites: EDS 3110, EDS 3120; EDS 3200 (may be taken concurrently with EDS 3210)

Corequisite: EDS 3220. Math teacher candidates must take MTH 3610 concurrently with EDS 3210 and

EDS 3220.

Teacher candidates will convert theoretical instruction in teaching methodologies into practical applications in simulated classroom environments. A variety of models of instruction and approaches to classroom management are modeled and designed. From these, teacher candidates develop a range of lessons and techniques to meet the educational needs of diverse learners. In addition, self, peer, and instructor review and assessment of student experiences will be used to promote teacher renewal and improve decision-making for teaching to standards.

EDS 3220-3 Field Experience in Teaching, Materials Construction, and Classroom Management (1 + 4)

Prerequisites: EDS 3110 and EDS 3120

Corequisite: Must be taken concurrently with EDS 3210. Math teacher candidates must take MTH 3610

concurrently with EDS 3210 and EDS 3220.

Integrates the content, theory, and conceptual aspects of academic and professional teacher education with experience in secondary schools. During this 60-hour field placement, teacher candidates apply a variety of technical skills to facilitate student learning and maintain positive relationships with colleagues and parents. Teacher candidates apply the principles of teaching, assessment, and classroom management to make approriate and equitable decisions for diverse groups of learners and facilitate their progress toward content standards. A weekly seminar is held to discuss each student's experiences and assess progress toward professional teaching standards.

EDS 4290-6, 8, 12 Student Teaching and Seminar: Secondary 7-12 (1 + 12.5, 17.5, 27.5)

Prerequisites: completion of all requirements of the teaching major and the Secondary Education Program A supervised 6-, 8-, or 13-week field experience in an accredited public or private secondary school, providing increasing responsibility for the teaching, supervising, and evaluating of an identified group of learners, grade levels 7–12. Regularly scheduled observations/seminars by appointed college supervisors are part of the field experience requirement. Unless your program specifically requires 6 or 8 credits, you should sign up for 12 credits. (Senior Experience)

EDUCATIONAL TECHNOLOGY

EDT 3610-1-3 Introduction to Educational Technology (.5-1 + 1-4)

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 early childhood through 12th grade classrooms. 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 1 credit (early childhood only), 2 credits (minimum required to fulfill elementary and secondary program requirement in technology) or 3 credits (students elect 3 credits to provide advanced or specialized technology in teaching competencies). Teacher candidates enrolling select 1, 2, or 3 credit hours based on their particular program requirements and their individual goals for growth in instructional technology. EDT 3610 instructors assess teacher candidates' entry-level technology skills and place them in an appropriate skill development module. Teacher candidates then progress through modules representing beginning, intermediate, advanced, and specialized content area/grade level proficiences.

ELEMENTARY EDUCATION

EDU 1000-1 Orientation to Education as a Profession (1 + 0)

Assesses and advises students according to their prior learning and needs. Content includes assessment of interests, prior learning and present competence in relation to the college's expectations, and individual and group advisement. Required entry-level course for students seeking early childhood licensure, major, or minor.

EDU 2120-3 Elementary Education in the United States (3 + 0)

Provides an understanding of elementary education within the context of the preschool through 12th grade perspective from a variety of philosophical, historical, sociological, and psychological contexts. Special emphasis on the roles that the teacher as decision-maker in diverse contexts must play in the schools to meet the educational needs of learners from diverse socioeconomic and multicultural backgrounds.

EDU 2340-3 Urban Early Childhood Education (3 + 0)

Corequisite: EDU 2350

Introduces the historical and philosophical foundations of early childhood education, as well as current social and educational issues and trends. Emphasizes the knowledge, attitudes, and decision-making skills essential for continued academic work and clinical experience in an urban, multicultural, early-childhood setting that serves youngsters from birth through age eight.

EDU 2350-2 Urban Early Childhood Education Field Experience (1 + 2)

Corequisite: EDU 2340

A clinical experience that provides guided observation and/or participation in the college's Child Development Center, ensuring practical application of the instruction received in the companion course (EDU 2340, Urban Early Childhood Education). Emphasizes observation skills; interactions with children of differing ages and from diverse ethnic, cultural, and economic backgrounds; and implementation of developmentally appropriate activities in the daily program of an urban early childhood center.

EDU 2360-2 Expressive Arts for the Young Child (2 + 0)

Considers the facilitation of children's creative expression and problem-solving in music, movement, art, drama, literature, and other forms. Emphasizes ways to create a developmentally appropriate curriculum and maintain a classroom environment that allows creative expression and encourages the creative or gifted child.

EDU 2640-3 Urban and Multicultural Education (3 + 0)

Prerequisites: EDU 2120 and satisfaction of the Level I math requirement, and ENG 1010 or the Level I

Communication requirement, or permission of the instructor

Designed as an interdisciplinary course to acquaint the student with cultural and ethnic variations, human relations, and the school as a social institution. (General Studies—Level II, Social Sciences; Multicultural)

EDU 3120-3

(CHS 330) Education of Chicano Children (3 + 0)

Prerequisite: CHS 2000

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: CHS or EDU.

EDU 3340-4 Administration of Early Childhood Programs (4 + 0)

Prerequisites: EDU 2340, 2350, PSY 1800 or equivalent

Provides an overall view of program administration and specific concepts applicable in a variety of early child-hood settings: preschools, child care, infant/toddler care, and after-school programs. Examines personnel management, program development, fiscal administration, marketing, and fund-raising.

EDU 3350-3 Assessment and Measurement in the Early Childhood Classroom (2 + 2)

Prerequisite: PSY 1800

Emphasizes the foundations for assessing and measuring child growth and learning in the early childhood classroom, with emphasis on techniques and procedures appropriate for use with pre-reading children. Informal and observational methods of assessment will be stressed, along with more traditional teacher-made and standardized tests.

EDU 3370-3 Language Arts and Social Studies Curricula for Early Childhood Education (3 + 0)

Prerequisite: PSY 1800

Covers the theoretical approach to and various influences on the acquisition and development of language and literacy in the early childhood years and the introduction and integration of social studies concepts in early childhood years and childhood classrooms. Students design, implement, and evaluate developmentally appropriate language arts and social studies curricula.

EDU 3420-3 Curriculum Methods and Materials for Teaching the Mentally Retarded K-12 (3 + 0)

Prerequisite: EDU 3410 or permission of the instructor

An intensive study of the curriculum sequence and content for mildly, moderately, and severely retarded children, based on instructional or performance objectives.

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 3510-4 Perspectives in Bilingual-Bicultural Education (4 + 0)

An introductory course in bilingual and multicultural education, with emphasis on the linguistically and culturally diverse learner. Acquaints the student with historical perspectives, philosophical frameworks, legal implications, subject matter methodologies, and current issues that affect these educational programs.

EDU 3630-4 Family Life Education (4 + 0)

Prerequisites: EDU 2350, PSY 1800

Provides a basis for teaching family life education in the schools. Emphasizes working with adolescents and their parents, strengthening family relationships, and providing information on resources for family life.

EDU 3640-4 Curriculum and Management: Pre-Primary-6 (3 + 2)

Prerequisites: - EDU 2120 or EDU 2340, PSY 1800, EDU 2640

Provides opportunity to analyze instructional and management methods in the elementary school and to develop a curriculum unit to be used in a clinical setting. Focuses on methods, discipline systems, and multicultural education integrations based on the teacher as a decision maker.

EDU 4070-3 Designing and Implementing Programs for Adult Learners (3 + 0)

Prerequisite: PAR 2050, HSP 2020, or permission of instructor

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 4100-4 Language Arts and Social Studies Curriculum: Pre-primary-6 (3 + 3)

Prerequisites: EDU 2120, EDU 2640, EDU 3640, PSY 1800

Provides the opportunity to understand, research, develop, and use multicultural, integrated-curriculum concepts, methods, and materials pertinent to the teaching of language arts and social studies in the elementary school, observing different learning styles and capacities. Develops teacher decision-making skills through instruction and clinical experience with a variety of concepts, methods, materials, and assessment to a diverse group of learners.

EDU 4120-4 Science and Math Curriculum: Pre-primary-6 (3 + 3)

Prerequisites: EDU 2120, EDU 2640, EDU 3640, PSY 1800, MTH 1610, and SCI 2800

Focuses on current methods and curricula in elementary school mathematics and science. Examines the developmental and cultural attributes of students in respect to instruction in math and science. Develops teacher decision-making skills through instruction and clinical experience with a variety of concepts, methods, and assessment pertinent to the teaching of math and science to a diverse group of students.

EDU 4190-6, 8, 10 Student Teaching and Seminar: Elementary (K-6) (1 + 12.5, 17.5, 22.5)

Prerequisites: successful completion of major, teacher licensure courses, and approval of department chair A supervised, full-time clinical experience in an accredited public or private elementary school, providing increasing responsibility for the teaching, supervision, and direction of learners (K–6). A biweekly seminar is part of the clinical experience requirement. (Senior Experience)

EDU 4310-3 Parents as Partners in Education (3 + 0)

Prerequisite: PSY 1800 or permission of instructor

Focuses on the need for parents to be partners in the education of their children and emphasizes planning and activities that encourage parents to be involved. Covers the history of parent education; the family; communication skills; parent-teacher conferences; the exceptional child; child abuse; and the rights and responsibilities of children, teachers, and parents.

EDU 4330-2 Science and Mathematics for the Young Child (2 + 0)

Prerequisites: PSY 1800, EDU 3640

Emphasizes the application of methods teachers of young children use to build appropriate knowledge and conceptual foundations for science and mathematics. Students make decisions regarding planning, implementing, and evaluating lessons and activities appropriate for the teacher through third grade.

EDU 4360-4 Cultural Influence on the Socialization of Children (4 + 0)

Prerequisite: PSY 1800 or permission of instructor

Examines the socialization of children, using a multidisciplinary approach, including anthropology, psychology, sociology, biology, and education. Emphasizes the study of human attachment, modeling, and social learning theory. From this base, the student analyzes the effects that cultural and socialization patterns have on the family and individual's development. Offered fall semester.

EDU 4370-3 Planning a Developmentally Appropriate Early Childhood Classroom (3 + 0)

Prerequisite: EDU 3370 or EDU 3640

Students learn how to organize, schedule, sequence, and integrate available resources to plan and implement developmentally appropriate early childhood programs. Content areas include planning, classroom organization, management, curriculum security, and learning effective teaching techniques.

EDU 4380-3-6 Teaching Practicum in Pre-primary Early Childhood Education (1 + 5, 12.5)

Prerequisites: EDU 3350, EDU 3370, or consent of instructor; satisfaction of all Level I and Level II General Studies course requirements, senior standing

Corequisites: EDU 4370, PSY 1800

Guided participation and teaching in a preprimary school or center to prepare students to take charge of a class. Students learn classroom planning, organization, and management. (Senior Experience)

EDU 4390-6-8-10 Student Teaching and Seminar: Early Childhood (Preschool through Third Grade) (1 + 12.5, 17.5, 22.5)

Prerequisites: completion of major and teacher licensure coursework, satisfaction of all Level I and Level

II General Studies course requirements, senior standing

Requires assignments in an accredited public or private school as follows: one assignment in either Pre–K or K and one assignment in either first, second, or third grades for a total of 13 weeks. Both clinical experiences provide increasing responsibility for the teaching, supervision, and direction of a group of learners. (Senior Experience)

EDU 4420-3 Methods and Materials for Teaching the Gifted (3 + 0)

Prerequisite: EDU 3460 or permission of instructor

Corequisite: EDU 4430

Presents strategies for teaching the intellectually gifted child in the content areas.

EDU 4430-1 Field Experience in Gifted and Talented (0 + 2)

Prerequisite: EDU 3460 or permission of instructor

EDU 4420 Corequisite:

Offers an opportunity to gain hands-on experience in a school setting that serves gifted students.

EDU 4440-2 Teaching Thinking Skills to the Gifted (2 + 0)

Prerequisite: EDU 3460 or permission of instructor

Focuses on methods for teaching gifted students to be creative and divergent thinkers.

EDU 4510-4 Development of Methods and Materials for the Bilingual/Bicultural Classroom (4 + 0)

Prerequisites: EDU 3510 and proficiency in Spanish

Designed to help students identify appropriate instructional materials in the areas of language arts, math and science, social studies, and the fine arts. Emphasizes planning, implementing, and evaluating curriculum for the linguistically and culturally diverse student with alternatives in approaches and methodology. Includes clinical experience in a bilingual classroom.

EDU 4520-3 Practicum in Bilingual/Bicultural Education (1 + 4)

Prerequisites: EDU 4510, proficiency in Spanish

Considers bilingual/bicultural techniques and their development and implementation in a bilingual/bicultural classroom. Requires six hours per week in a bilingual school or community setting.

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. May be repeated for credit under a different topic.

EDU 4690-1-6 Professional Practicum (0 + 2.5-15)

completion of student teaching or permission of college supervisor of student teaching; satisfaction of all Level I and Level II General Studies course requirements, senior standing Prerequisites:

A five-week clinical experience designed cooperatively by the student and a designated college supervisor. Experiences range from remedial work to internships in education-related organizations. Students may elect variable credit in consultation with their adviser. (Senior Experience)

SPECIAL EDUCATION COURSES

SED 3380-3 Teaching Students with Learning and Behavior Disorders (2.5 + 1)

Prerequisite: SED 3600

The psychological, social, and academic needs of students with mild/moderate disabilities (learning disabilities, mental retardation, and behavior disorders) will be surveyed across the developmental continuum. Instructional approaches will be emphasized. This class includes 15 hours of clinical experience in a school setting.

SED 3400-3 Educational Exceptionality and Human Growth (3 + 0)

EDU 1000, EDU 2120, SED 3600 Prerequisites:

Examines various handicapping conditions and their effects on normal growth and development.

SED 3410-3 Diagnosis and Evaluation of Exceptional Students (3 + 0)

SED 3600, SED 3380, or permission of instructor Prerequisites:

Focuses on the selection, use, and interpretation of formal and informal instruments for assessment of handicapped students' abilities. Emphasizes diagnostic-prescriptive teaching.

SED 3430-3 Field Experience in Special Education (.5 + 5)

Prerequisites: SED 3600 and SED 3380

This class provides a five-hour-per-week clinical experience in special education in the public schools. Students are provided with experience in developing and implementing special education programs for students with disabilities. Students also meet bi-weekly for one hour at the college.

Collaborative Practices in Special Education (3 + 0) SED 3440-3

SED 3600 and SED 3380 Prerequisites:

This course focuses on effective collaboration among professionals and between professionals and families for the successful coordination of special education services. The development of effective communication and consultation skills will be emphasized.

SED 3490-3 Education of the Learning Disabled (3 + 0)

Prerequisites: SED 3600 or permission of instructor

An introduction to the education of the learning-disabled child. Characteristics, identification, and educational implications are explored.

SED 3600-3 The Exceptional Learner in the Classroom (3 + 0)

This course provides a survey of various exceptionalities and includes information about child abuse. Educational strategies and curriculum modifications for inclusion are addressed.

SED 4200-3 Language Development and Learning Disabilities (3 + 0)

Prerequisite: SED 3600 or permission of instructor

Surveys the nature and educational treatment of language disorders in learners with disabilities. Emphasizes oral and written language development, as well as the facilitation/remediation of common problems associated with learning disabilities.

SED 4250-3 Classroom Management for Exceptional Students (3 + 0)

Prerequisite: SED 3600 or permission of instructor

Explores the use of systematic behavioral assessment and intervention strategies with exceptional students. Practical application for management plans for both regular and special education classrooms is covered.

SED 4500-6 Special Education Student Teaching & Seminar (1 + 12.5)

Prerequisite: completion of all special education minor requirements

Corequisites: EDU 4190, EDS 4290

This is a full-time, six-week special education student teaching experience in an accredited public or private school that provides responsibility for teaching an identified group of learners with moderate disabilities. Regularly scheduled observations and seminars are provided by college supervisors.

Electrical Engineering Technology

EET 1000-2 Electronics for Non-Majors (2 + 0)

Prerequisite: elementary algebra

Emphasizes the aspects and applications of electronics useful to persons who are not technically oriented.

EET 1100-4 Circuits I (4 + 0)

Corequisites: MTH 1110 or MTH 1400, EET 1110

Covers DC circuit analysis, including mesh analysis, nodal analysis, Thevenin conversion, Norton conversion, power, magnetism and magnetic circuits, capacitance, and inductance.

EET 1110-1 Circuits I Laboratory (0 + 2)

Corequisite: must be taken concurrently with EET 1100

An introduction to electrical laboratory procedures and the measurement of basic direct current parameters. Supplements theoretical studies and aids in understanding of basic principles.

EET 1120-4 Circuits II (4+0)

Prerequisites: EET 1100, EET 1110, MTH 1400 (or MTH 1120 corequisite)

A continuation of EET 1100, 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 1130-2 Circuits II Laboratory (0 + 4)

Prerequisites: EET 1100 and EET 1110

Corequisite: must be taken concurrently with EET 1120

Designed to aid the understanding of alternating current circuits with various combinations of resistance, inductance, and capacitance.

EET 2000-3 Electric Circuits and Machines (3 + 0)

Prerequisites: MTH 1120 or MTH 1400, PHY 2020 or PHY 2330

An introductory course in electric circuits for non-EET majors. Covers DC and AC circuits, generators, motors, transformers, elementary electronic devices, and circuits.

EET 2140-4 Electronics I (3 + 2)

Prerequisite: EET 1120 and EET 1130

A study of semiconductor diode and bipolar junction transistor devices and circuits.

EET 2150-4 Electronics II (3 + 2)

Prerequisite: EET 2140 or EET 3010

A study of junction and MOS field-effect transistors, thryristors, and elementary op amps. Also covers frequency response of cascaded amplifiers.

Digital Logic and Telecommunications (3 + 2)

An introduction to computer hardware circuits and telecommunications for non-EET majors. Includes lecture and lab with memory circuits and other digital logic devices.

EET 2320-3 Digital Circuits I (2 + 2) Prerequisite: EET 1120 or EET 2000

Covers the analysis and design of logic circuits, using Boolean algebra and Karnaugh maps. Combinational logic circuits (adders, comparators, decoders, encoders, multiplexers, parity generators) are studied. Flip-flop circuits are also used in analysis and design.

EET 2340-2 **Technical Programming Applications (2 + 0)**

Prerequisite: **EET 1120**

Introduces the student to digital computers and their usefulness for solution of technology problems using highlevel languages. Emphasizes problems from the field of electronics technology.

EET 2350-3 Advanced Technical Programming (3 + 0)

EET 2140 and EET 2340 Prerequisites:

An advanced-level programming course using the C language and UNIX. Methods of solving circuit and electronics problems using the computer are studied.

EET 2800-3 Cooperative Education (1 + 6)

formal admission to Cooperative Education Program and permission of department chair Prerequisites: A seminar course allowing working student to share work experience and to report on particular projects.

EET 3010-4 Industrial Electronics (3 + 2)

Prerequisite: EET 1120 or EET 2000

Covers the application of transistors, op amps, and other electronics devices, both analog and digital. Not for EET majors.

EET 3020-3 Digital IC Design (2 + 2)

EET 2340, EET 3330; and either EET 2120 or EET 2150 Prerequisites:

A course on the design of IC and ASIC digital circuits.

EET 3110-4 Circuit Analysis with Laplace (4 + 0)EET 1120, EET 1130, and MTH 2410 Prerequisites:

An advanced-level circuit analysis course using calculus and Laplace transforms.

EET 3120-4 Advanced Analog Electronics (3 + 2)

Prerequisites: EET 2150 and EET 3110

An advanced analog electronics course with emphasis on the operational amplifier. Topics include power supplies, active filters, amplifiers, nonlinear circuits, and 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), semiconductor memories, A/D and D/A interfacing, and PLDs are studied.

EET 3360-3 Microprocessors (2 + 2)

EET 2320, and one high-level computer language (BASIC, C, PASCAL, etc.) Prerequisites: Covers microprocessor hardware and software, including assembly language programming.

EET 3410-3 Electric Machines (2 + 2) Prerequisite: EET 2150 or EET 3010

A study of motors and generators and their applications.

EET 3420-3 Electric Power Distribution (3 + 0)

Prerequisite: EET 2150 or EET 3010

A study of distribution techniques and equipment employed in electric power distribution and control.

EET 3430-3 Power Generation Using Solar Energy (2 + 2)

EET 2140 and EET 2340 Prerequisites:

Examines the application of solar power generation, using photovoltaic cells, wind machines, and thermal engines.

EET 3620-3 Analog and Digital Communications (3 + 0)

Prerequisite: EET 2150 or EET 3010

An introduction to communications systems, Includes 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)

Prerequisites: EET 3110 and EET 3620

Covers mathematical concepts of static and dynamic electromagnetic fields. Includes planewave propagation in lossless and lossy media, waveguide propagation, and radiation principles.

EET 3640-3 Communications Laboratory (0 + 6)

Prerequisite: EET 3620

Covers the fundamentals of analog and digital communication. Includes experiments on modulation, noise, transmission lines, antennas, fundamental communication systems, lasers, and fiber optics.

EET 3670-3 Measurements for Communications Systems (1 + 4)

Prerequisites: EET 2340, EET 3620, and EET 3640

Involves measurements on communications circuits, including SNR, noise figure, impedance, admittance, phase, power, frequency, spectrum analysis, and fields at high frequencies.

EET 3690-3 Fiber Optics (2 + 2)

Prerequisites: trigonometry and two semesters of college-level physics

Fiber optics is studied, including ray propagation, emitters, detectors, connectorization and systems, including FDDI and SONET.

EET 3710-3 Control Systems Analysis (3 + 0)

Prerequisite: EET 3110

An analysis of classical linear continuous-time control systems. Includes the 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)

Prerequisites: EET 3120 and EET 3710

A laboratory course in the analysis and design of control systems, using the classical approach.

EET 3730-2 Process Control Systems (2 + 0) two years of high school algebra

An introductory course in the applications of PID controllers in the process control industry.

EET 3740-2 Programmable Logic Controllers (2 + 0)

Prerequisites: two years of high school algebra

Covers the application of programmable logic controllers (PLC) and their programming, using ladder diagrams.

EET 3800-3 Cooperative Education II (1 + 6)

Prerequisites: formal admission to the Cooperative Education Program, permission of department chair, and

EET 2800

A continuation of EET 2800.

EET 4020-3 Verilog Hardware Description Language (2 + 2)

Prerequisites: EET 3330 or EET 2310, EET 2350 or CSI 2220

The Verilog Hardware Description Language is studied. It is used to design and simulate very large digital integrated circuits.

EET 4030-3 Analog IC Design (2 + 2) Prerequisites: EET 3020 and EET 3120

Examines the design of IC and ASIC analog circuits.

EET 4040-3 Introduction to IC Fabrication (2 + 2)

Prerequisites: CHE 1100 or 1200, PHY 2331 or PHY 2020

An introduction to the basics of IC fabrication methods and techniques.

EET 4100-1 Senior Project I (0 + 2)

Prerequisites: ENG 1020, COM 2610, EET 3120, EET 3360; satisfaction of all Level I and Level II Gen-

eral Studies course requirements, and senior standing

Provides the opportunity to plan design projects in consultation with faculty advisers. Interfacing with industry is encouraged. (Senior Experience)

EET 4110-2 Senior Project II (0 + 4)

Prerequisites: SPE 1010, completion of EET 4100 with a grade of "C" or better, satisfaction of all Level I

and Level II General Studies course requirements, and senior standing

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)

Prerequisites: EET 2340, EET 3110, MTH 2410

An introduction to digital filters as applied in digital signal processing and sampled data control systems.

EET 4330-3 Data Communications (2 + 2)

Prerequisite: EET 3330 or EET 2310

Covers methods of local and distant digital communications including systems, standards, and hardware used for transmitting digital data either synchronously or asynchronously.

EET 4340-3 Interface Techniques (2 + 2)

Prerequisites: EET 3330, EET 3360

Covers interfacing techniques with computers, peripherals, and other digital circuits.

EET 4370-3 Microcontrollers (2 + 2)

Prerequisite: EET 3360

Provides the opportunity for learning to design microcontrollers.

EET 4620-3 Advanced Communications Systems (3 + 0)

Prerequisite: EET 3620

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)

Prerequisite: EET 3620

Covers the application of basic communications, power, and microwave theory to space and satellite communication systems.

EET 4640-3 Communication Circuit Design (3 + 0)

Prerequisite: EET 3630

Covers the analysis and design of radio frequency electronic circuits for communication transmission and reception.

EET 4710-4 Digital Control Systems Design (4 + 0)

Prerequisite: EET 3710

Includes the design of 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

Covers analysis and design of robots. Includes robot kinematics, inverse kinematic, kinetics, sensors, actuators, and industrial applications.

English

ENG 1010-3 Freshman Composition: The Essay (3 + 0)

Prerequisites: a score of 3.0 on the writing placement exam or a "C" or better in CCD's ENG 100 course 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)

ENG 1020-3 Freshman Composition: Analysis, Research, and Documentation (3 + 0)

Prerequisite: ENG 1010 or its equivalent

ENG 1020 examines 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. Those sections of ENG 1020 listed as "Research and Word Processing" include hands-on instruction on the use of the computer in research and writing. (General Studies—Level I, Composition)

ENG 1100-3 Introduction to Literature (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment 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 Introduction to Fiction (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment 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 preassessment 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)

ENG 1140-3 Literature of Popular Interest (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and math preassessment place-

ment 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. 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 preassessment 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)

Prerequisite: ENG 1010 or permission of instructor

An entry-level course introducing students to academic literary study and its concepts, traditions, critical approaches, and controversies. Students will be required to read and write about literature drawn from a variety of cultures, both contemporary and historical, and written by men and women of diverse backgrounds.

ENG 2110-3 World Literature: Beginnings to 1600 (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

The study of literature in translation from the pre-Homeric era to 1600, created by men and women of diverse backgrounds.

ENG 2120-3 World Literature: 17th Century to Present (3 + 0)

Prerequisite: ENG 2100 or permission of instructor

The study of continental and third-world literature in translation, written after 1600.

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 2310-3 British Literature: Beginnings to 1785 (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

The literature of England from the old English period through the 18th century, including poetry, drama, prose fiction, and essays.

ENG 2330-3 British Literature: 1785 to Present (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

The literature of England from the Romantic period through the present, including poetry, drama, prose fiction, and essays.

ENG 2410-3

(CHS 2010) Survey of Chicano Literature (3 + 0) Prerequisite: CHS 1000 or permission of instructor

This course reviews the major literary genres associated with Chicano creative expression, including poetry, drama, and the novel. Credit will be granted for only one of these prefixes. Suitable for non-English majors.

ENG 2420-3

(CHS 2020) Chicano Poetry and Drama (3 + 0)

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 only be granted for only one of these prefixes. Suitable for non-English majors.

ENG 2450

(WMS 2450) Women's Literature (3 + 0)

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.

ENG 2500-3 Art & Craft of Writing (3+0)

Prerequisite: ENG 1020 or permission of instructor

This introductory course for students pursuing an English major with an emphasis in writing 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)

Prerequisites: 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 language 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)

Prerequisites: permission of instructor; ENG 2010 is recommended but not required for students who have

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)

Prerequisites: any of the following: ENG 2010, ENG 3020, ENG 3030, ENG 3040, ANT 2330 or permission 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 procedures, 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 3100-3 Studies in Chaucer, Shakespeare, and Milton (3 + 0)

Prerequisite: six semester hours of English beyond ENG 1020

A study of major works by Chaucer, Shakespeare, and Milton, designed to give the student a thorough understanding of these principal influences on the English literary heritage.

ENG 3110-3 Selected Literary Periods (Variable Topics) (3 + 0)

Prerequisite: Six hours of English 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 literature's contexts.

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)

Prerequisite: six semester hours of English above 1020, or permission of instructor

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

(AAS 3240) African American Literature (3 + 0)

Prerequisites: six semester hours of English above 1020, or permission of instructor and satisfaction of

Level I General Studies course requirements

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 of these prefixes. 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)

Prerequisite: six semester hours of English above 1020

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

A study of developing practice and theory together with critical evaluation of the British novel through the nineteenth century.

ENG 3400-3 Development of Modern Poetry (3 + 0)

six semester hours of English above 1020, or permission of instructor Prerequisite:

This course is a study of the theory and prosody of twentieth-century poetry.

ENG 3410-3 Masterpieces of Continental Literature (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor This course studies major works by European writers from the classical period to the present.

ENG 3420-3 The English Bible as Literature (3 + 0)

Prerequisites: completion of Level II General Studies lower-division literature course (ENG 1100, ENG

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)

Prerequisites: completion of Level II General Studies lower-division literature course (ENG 1100, ENG

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 continued vitality of mythology. (General Studies-Level II, Arts and Letters)

ENG 3440-3 Myth, Symbol, and Allusion in Literature (3 + 0)

Prerequisite: six semester hours of English above 1020

A course introducing students to mythic and Biblical themes and symbols as they appear in literature, primarily poetry, both ancient and modern, written by men and women of diverse backgrounds.

ENG 3460-3 Children's 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 study of all levels and types of children's literature for the student who is interested in literature per se, for the student who is planning to teach, and for persons who are or will be parents. It also introduces students to types and varieties of literature for reading to children, as well as reading by children. In addition, it includes a consideration of approaches and techniques for presenting literature to children. (General Studies Course—Level II, Arts and Letters)

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

(CHS 3400) The Chicano Novel (3 + 0)

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 of these prefixes. Suitable for non-English majors.

ENG 3490-3

(CHS 3410) Chicano Folklore of the Southwest (3 + 0)

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 of these prefixes. Suitable for non-English majors.

ENG 3510-3 Advanced Composition (3 + 0)

Prerequisite: six semester hours of English at the 2000-level or above or permission of instructor

A study of the theoretical and ethical bases of persuasive writing and practice in the principles and techniques that effect constructive persuasion in a pluralistic society. Suitable for non-English majors.

ENG 3520-3 Creative Writing Workshop (Fiction, Poetry, or Drama) (3 + 0)

Prerequisite: ENG 2520 or permission of instructor

This class will include group discussions and supervised individual projects in writing imaginative literature; it may be repeated for credit with permission for each of the genres.

ENG 3530-3 Techniques of Critical Writing (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor

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 academic criticism. Suitable for non-English majors.

ENG 3620-3 Teaching Composition, 7-12(3+0)

Prerequisite: ENG 2100 and ENG 2500

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 3670-3 Writing Tutor (3 + 0)

Prerequisites: ENG 1010, ENG 1020, and permission of instructor

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)

Prerequisite: one upper-division course in the humanities or social sciences or one literature course; or per-

mission of instructor

The course will examine questions about law, justice, and morality through an examination of selected pieces of world literature.

ENG 3820-3 Writing Studio (Variable Topics) (3 + 0)

Prerequisite: ENG 2500 or ENG 2520 and completion of the appropriate 3000-level writing course, or per-

mission of instructor

This course offers specialized studios in the writing of a particular literary subgenre or expository form, incorporating lectures, selected textual studies, group discussion, workshops, and supervised individual projects. May be repeated for credit under different titles.

ENG 4010-3 Studies in Linguistics (Variable Topics) (3 + 0)

Prerequisites: Any of the following: ENG 2010, ENG 3020, ENG 3030, ENG 3040, ENG 3050, ENG 3060,

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. Students may repeat the course under different subtitles.

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. May be repeated for credit under different titles.

ENG 4120-3 Selected Themes in Literature (Variable Topics) (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor

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. May be repeated for credit under different titles.

ENG 4130-3

(CHS 4200) Major Authors (Variable Topics) (3 + 0)

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. May be repeated for credit under different titles.

ENG 4140-3 Modern Continental, British, and American Drama (3 + 0)

Prerequisite: six semester hours of English above 1020, or permission of instructor

This course encompasses a survey of the important dramatic work of the last hundred years with emphasis on trends 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.

ENG 4320-3 Shakespeare: Tragedies and Ethical Problem Plays (3 + 0)

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 Cressida, and Cymbeline.

ENG 4520-3 Advanced Writing (3 + 0)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, senior standing,

completion of all lower-level writing requirements in the English major or minor with writ-

ing emphasis, and/or permission of the instructor

This capstone course in the writing emphasis provides individual instruction for independent projects in writing fiction, poetry, drama, or nonfiction and advice for submitting work for publication or production. (Senior Experience)

ENG 4600-3 Teaching Literature and Communication, 7–12 (3 + 0)

Prerequisites: senior standing and completion of ENG 3020, ENG 3470, and ENG 2500

Students will explore pedagogical techniques for teaching literature: understanding and responding to texts and applying the dynamics of communication in spoken and written language. The course will address issues of language diversity; cross-cultural, young adult, and nonprint literatures; and integration of English language arts.

ENG 4610-3 Theories and Techniques in Literary Criticism (3 + 0)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, senior standing,

and permission of instructor

This Senior Experience course, a requirement for English majors with a literature emphasis, studies major critical theories from the ancients to the contemporary deconstructionists, with an emphasis on theoretical understanding and practical application of the writing of critical essays. (Senior Experience)

ENG 4640-3 Teaching English, 7-12(3+0)

Prerequisites: completion of at least 36 semester hours of courses required for secondary English emphasis,

completion of at least 15 semester hours of professional education courses, and permission of

instructor.

In this capstone 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. (Senior Experience)

ENG 4650-3 Teaching Composition in Elementary School (3 + 0)

Prerequisites: ENG 3510, 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. Students will develop and demonstrate composition lessons and activities.

ENG 4660-3 Teaching Literature and Language K-6 (3 + 0)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, senior standing,

and completion of ENG 3020 and ENG 3460

This Senior Experience course focuses on the comprehension and teaching of literature, language, and language arts for K–6 students, with emphasis on the elements, characteristics, and types of literature and on the forms, functions, and uses of language, grammar, and usage. Students will prepare, present, and evaluate lessons and activities representative of the curriculum. (Senior Experience)

Finance

FIN 2250-3 Personal Money Management (3 + 0)

Prerequisite: sophomore standing

This is a survey course 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. (Credit will be granted for only FIN 2250 or FIN 3150. Business students should take FIN 3150.)

FIN 3010-3 Financial Markets and Institutions (3 + 0)

Prerequisite: junior standing

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)

Prerequisite: junior standing

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)

Prerequisite: business major with junior standing

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)

Prerequisites: ACC 2020, ECO 2010, ECO 2020 and junior standing

This is a study of the dynamic environment of financial management using the following analytical skills: financial analysis, forecasts, cash and capital budgeting, operating and financial leverage, the cost of capital, and dividend policy.

FIN 3420-3 Principles of Insurance (3 + 0)

Prerequisite: 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 3430-3 Property and Liability Insurance (3 + 0)

Prerequisites: FIN 3420 and junior standing

This course is an examination and study of the principles and uses of property and liability insurance. It also includes types of property and liability insurance, products selection, classification of property and liability risks, and organization and regulation of property and liability insurers.

FIN 3440-3 Life and Health Insurance (3 + 0)

Prerequisites: FIN 3420 and junior standing

This course is an examination and study of the principles and uses of life and health insurance. It also includes types of life and health risks, and organization and regulation of life and health insurers.

FIN 3450-3 Retirement Planning and Employee Benefits (3 + 0)

Prerequisite: 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.

FIN 3460-3 Risk Management (3 + 0)

Prerequisites: FIN 3420 and junior standing

This course is an analysis of risk identification and evaluation, measurement of protection, and methods of handling risk. It also includes insurance buying, loss financing, and international insurance exposures.

FIN 3600-3 Investments (3 + 0)

Prerequisites: FIN 3300 and 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 3650-2

(ACC 3650) Electronic Spreadsheets on the Microcomputer (2 + 0)

Prerequisite: junior standing

This course teaches the student how to create and use electronic spreadsheets (Lotus 1–2–3) on the microcomputer. Credit will be granted for only one of these courses.

FIN 3800-3 Real Estate Practice and Law (3 + 0)

Prerequisite: 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 and junior standing

This course builds upon the material covered in FIN 3800 by providing expanded, in-depth coverage of the topics, as well as introducing some new topics to provide a broad coverage of the field of real estate.

FIN 3820-3 Real Estate Finance (3 + 0)

Prerequisites: FIN 3800 and junior standing

This course is designed to provide the student and real estate professional with a basic understanding of the instruments, methods, procedures, institutions, and money markets involved in the financing of real property. There is special emphasis on the mathematics of real estate financing and practical problems.

FIN 3850-3 Intermediate Finance (3 + 0)

Prerequisites: FIN 3010, FIN 3300, junior standing

This is an advanced, integrated study of the theory, concepts, and techniques encompassed by financial markets, institutions, and investments as applied in managerial finance. Computer usage is required, especially spreadsheet applications, such as Lotus 1–2–3.

FIN 4000-3 Management of Financial Institutions (3 + 0)

Prerequisites: FIN 3010 and senior standing

The purpose of this course is to provide an integrated approach for the financial management of financial institutions. With this objective, the course concentrates on providing the theoretical framework and techniques of financial management, recognizing the rapid changes taking place in the institutional environment.

FIN 4100-3 International Financial Management (3 + 0)

Prerequisites: FIN 3100, FIN 3300, ECO 3550, and senior standing

The purpose of this course is to provide a conceptual framework to analyze business financial decision making in the international setting. All the traditional areas of corporate finance are explored, especially working capital management, capital budgeting, cost of capital and financial structure, and evaluation and control of operations. These topics are examined under conditions of multiple currencies, frequent exchange rate changes, varying rates of inflation, differing tax systems, multiple money markets, exchange controls, segmented capital markets, and political risks.

FIN 4500-3 Analysis of Financial Statements (3 + 0)

Prerequisites: FIN 3300 and senior standing

An in-depth study of current financial reporting practices; analysis and interpretation of corporate financial statements, utilizing text and selected cases.

FIN 4600-3 Security Analysis and Portfolio Management (3 + 0)

Prerequisites: FIN 3600 and senior standing

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's objectives.

FIN 4650-3 Small Business Consulting (3 + 0)

Prerequisite: senior standing and must have completed or be coregistered in the remaining business core

courses

This senior-level course is designed to provide an opportunity for students to apply a broad range of their classroom knowledge and problem-solving skills to the specific needs of an actual business. The students work in teams, under the guidance of the instructor, with selected small businesses in the community providing research, consulting, and problem-solving assistance to specified problems. In most cases, the student team will also assist with the development of a long-range strategic plan.

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. The course may be repeated with different titles.

FIN 4750-3 Seminar in Personal Financial Planning (3 + 0)

Prerequisites: FIN 3420, FIN 3450, FIN 3600, ACC 3090 or ACC 4100, and senior standing

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 4840-3 Real Estate Appraisal (3 + 0) Prerequisites: FIN 3800 and senior standing

This course is designed to teach the student various methods of estimating real property value. The primary emphasis will be to apply these methodologies to single-family residences, but some coverage is provided on

commercial real estate.

FIN 4850-3 Commercial and Investment Real Estate (3 + 0)

Prerequisites: FIN 3800, FIN 3820, and senior standing

This course studies real estate as an investment medium, the techniques used in evaluating and comparing the investment quality of property, and certain tax factors relevant to real estate investment.

FIN 4950-3 Financial Strategies and Policies (3 + 0)

Prerequisites: senior standing, FIN 3850, and completion of all business core courses

This is 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. Proficiency in personal computer word processing and spreadsheet applications is necessary.

First-Year Seminar

XXX 1190-3 First-Year Seminar (3 + 0)

Analyzes the first-year college student's experience through social, psychological, and educational frameworks. Uses readings as multiperspective models of living in the world and the objects of inquiry. After close examination and class discussion, students write either reaction, review, or short research papers, using the personal voice to demonstrate their increasing awareness about how the issues affect them. Students build a body of writing that reflects their evolving role in academic life. Through written assignments, collaborative projects, oral presentations, and experiential learning, students make a more successful transition into college, achieving greater success while there. (Multicultural)

French

FRE 1010-5 Elementary French I (5 + 0)

A beginner's course, with emphasis on pronunciation, speaking, and understanding, supplemented by grammar, reading, and writing.

FRE 1020-5 Elementary French II (5 + 0)

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)

FRE 1110-3 Basic Conversational French I (3 + 0)

A course designed to teach the essentials of the French language through a conversational approach.

FRE 1120-3 Basic Conversational French II (3 + 0)

Prerequisite: FRE 1110 or equivalent, or permission of instructor

This course is a continuation of FRE 1110.

FRE 1800-1-15 International French Year I (1-15 + 0)

This is a variable-credit course, designed for first-year students learning French in a study-abroad setting. Recognizes approved study-abroad educational experience in French speaking, comprehension, reading, and writing.

FRE 2010-3 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)

Prerequisites: one year of college French or equivalent

This is a variable-credit course that recognizes second-year study of French language and culture in an approved study-abroad setting.

FRE 3010-3 Introduction to Advanced French Studies (3 + 0)

Prerequisites: FRE 2010, FRE 2020, or permission of instructor

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 3110-3 Survey of French Literature I (3 + 0)

Prerequisites: FRE 3010 or permission of instructor, satisfaction of Level I General Studies course require-

ments

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 require-

ments

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 student to combine accuracy with imagination and inventiveness in writing French.

FRE 3320-3 Advanced Conversation (3 + 0)

Prerequisite: FRE 2010 or FRE 2020 or equivalent, or permission of instructor

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)

Prerequisites: FRE 3010 or permission of instructor, and satisfaction of Level I General Studies course

requirements

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)

Prerequisites: FRE 3010 or permission of instructor, and satisfaction of Level I General Studies course

requirements

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: junior or senior standing in French or equivalent

This course recognizes upper-division study in language, culture, and literature in a study-abroad setting. It uses a variety of methods and includes reading, writing, and discussion seminars in French.

FRE 4520-3 Modern French Theater (3 + 0)

Prerequisites: three years of college French or equivalent, or permission of instructor, satisfaction of all

Level 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)

Prerequisites: three years of college French or equivalent or permission of instructor, satisfaction of all

Level 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 4750-3 Senior Seminar in French Studies (3 + 0)

Prerequisites: senior standing, at least two courses at the FRE 3000-level

This is an intense thematic seminar on either a literary or cultural topic emphasizing a comparative study in the former and a multidisciplinary approach to the latter.

Geography

GEG 1000-3 World Regional Geography (3 + 0)

Prerequisites: 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)

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)

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 1200-3 Introduction to Environmental Science (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

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)

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 1230-3 Weather and Climate (2 + 2)

This is an introductory course that includes that portion of physical geography dealing with weather and climate. Both world and local patterns are analyzed, as well as short- and long-range aspects of weather dynamics.

GEG 1240-3 Landforms of the U.S. (2 + 2)

Students study the physical features of the earth's surface and the shape or form of the landscape as influenced by interaction between basic earth processes and rock types, structure, climate, and weathering. U.S. and Canadian examples are used to illustrate landforms.

GEG 1300-3 Introduction to Human Geography (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

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)

GEG 1400-3 World Resources (3 + 0)

Prerequisites: 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)

GEG 1500-1-3 Current Topics in Geography (Variable Topics) (1-3 + 0)

Prerequisite: permission of instructor

These courses cover important topics in geography, usually involving contemporary issues. The course content will vary and the course may be repeated for credit as the course topic changes.

GEG 2020-3 Geography of Colorado (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics course requirement and either ENG 1010 or the Level

I General Studies Communications course requirement

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)

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)

Prerequisites: 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 2250-3 Introduction to Geographic Information Systems (3 + 0)

Prerequisites: GEG 1220 and MTH 1210

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.

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 rec-

ommended

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 3210-4 Introduction to Cartography (2 + 4)

This course provides instruction in the use and interpretation of maps, as well as the tools and constructional techniques. Students will construct a variety of maps at different map scales and projections and critique their effectiveness.

GEG 3220-3 Intermediate Cartography (1 + 4)

Prerequisite: GEG 3210

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.

GEG 3360-3 Geography of Economic Activity (3 + 0)

Prerequisites: GEG 1000 or GEG 1300, six additional hours of geography, MTH 1210. ECO 2010 recom-

mended

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 3400-3 Water Resources (3 + 0)

Prerequisites: GEG 1200 or GEG 1400, one of the following: GEG 1100, GEG 1230, or GEL 1010 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.

GEG 3600-3 Urban Geography (3 + 0)

Prerequisite: GEG 1000, GEG 1300, or URS 1000

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 (3 + 0)

Prerequisites: GEG 3600 or GEG 3360, six hours of geography

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 3620-3 Population, Resources, and Land Use (3 + 0)

Prerequisites: GEG 1000 or GEG 1300, six hours in geography; GEG 1400 recommended

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 projections are covered.

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 4200-3 Environmental Policy and Planning (3 + 0)

Prerequisites: GEG 1200 or GEG 1400, GEG 3610 or GEL 4010, junior or senior standing

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.

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 Land Use: Residential (3 + 0)

Prerequisite: GEG 3600 or permission of instructor

This course examines spatial patterns of urban growth, factors that affect housing and 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 and 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 Land Use: Recreation (3 + 0)

Prerequisites: 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: 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 4840-3 Remote Sensing (3 + 0)

Prerequisites: GEG 1220 and either GEG 1100, GEG 1240, or GEL 1010, six hours of upper-division geog-

raphy or geology courses

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.

GEG 4850-3 Advanced Geographic Information Systems (1 + 4)

Prerequisites: nine hours of geography, GEG 3210

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.

GEG 4950-2-15 Internship in Land Use (0 + 6-45)

Prerequisite: GEG 3610 or permission of department chair

This course provides an on-the-job internship experience with a land-use-related company or agency. The internship must be completed under qualified supervision and under the direction of an earth and atmospheric sciences faculty member.

GEG 4960-3 Global Environmental Challenges (3 + 0)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, 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)

Geology

GEL 1010-4 General Geology (3 + 2)

Prerequisites: 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)

GEL 1020-3 Geology of Colorado (3 + 0)

Prerequisites: 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)

GEL 1030-4 Historical Geology (3 + 2)

Prerequisite: GEL 1010

This course presents the origin and history of the Earth and the evolution of its life, based on the rock and fossil record. The course reviews changing geography of the Earth through geologic time, emphasizing the theory of plate tectonics. A field trip is required.

GEL 1150-3 Oceanography (3 + 0)

Prerequisites: 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)

GEL 1200-2 Gemology (1 + 2)

This course focuses on the origin, geography, and areas of occurrence of gemstones, as well as the physical properties of gemstones. It includes methods and instruments for their identification.

GEL 1500-13 Current Topics in Geology (Variable Topics) (13 + 0)

Prerequisite: permission of instructor

These courses cover important topics in geology, usually involving contemporary issues. The course content will vary and the course may be repeated for credit as the course topic changes.

GEL 2010-4 Rocks and Minerals (3 + 2)

Prerequisite: GEL 1010

This course is an introduction to the origin, occurrence, and identification of the common minerals and rocks that make up the Earth's crust. It emphasizes the field recognition of the rocks and minerals of Colorado.

GEL 2020-4 The Stratigraphy and Structure of the Earth (3 + 2)

Prerequisite: GEL 1010; GEL 2010 recommended

This course is an introduction to vertical and lateral relationships among strata and the genetic significance of micro and macro structural features.

GEL 3120-4 Advanced Geomorphology (3 + 2)

MTH 1210, GEL 1010, GEG 1100, GEG 1240, or permission of the instructor Prerequisites:

This course is 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.

Hydrogeology (3 + 0) GEL 3150-3

MTH 1110, MTH 1210, and GEL 1010 Prerequisites:

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, and field sampling. A field trip is required.

GEL 3420-4 Soil Resources (3 + 2)Prerequisites: GEL 2010, GEG 1240

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

Energy and Mineral Resources (3 + 2) GEL 2010 and GEG 1400, or permission of instructor Prerequisites:

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 3920-2-6 Directed Study in Geology (0 + 4-12)

15 hours in geology; approval 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 4000-3 Environmental Geology (2 + 2)

GEL 1010 or GEG 1100; minimum of six additional hours in geology or physical geography Prerequisites:

or permission of instructor

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 geologic hazards are revealed in a series of actual case studies performed by the student.

GEL 4010-3 Environmental Hazards and Planning (3 + 0)

GEL 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.

GEL 4150-3 Hydrology (3 + 0)

GEL 1010, GEL 3150, MTH 1210 Prerequisites:

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 involves numerous practical problems.

GEL 4950-2-15 Internship in Geology (0 + 6-45)

Prerequisites: land use major with geology emphasis, junior or senior standing, 12 upper-division courses in geology, permission of the chair, 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 under the direction of an Earth and Atmospheric Sciences faculty member.

GEL 4960-3 Environmental Field Studies (1 + 4)

Prerequisites: 12 hours of upper-division courses in geology, physical geography, biology, and/or meteo-

rology 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 analyses. 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)

German

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)

Prerequisite: GER 1010, or one or two years of high school German

This is a continuation of GER 1010. (General Studies—Level I, Communications)

GER 1110-3 Basic Conversational German (3 + 0)

A course designed to teach the essentials of the German language through a conversational approach.

GER 1120-3 Basic Conversational German (3 + 0)

Prerequisite: GER 1110 or equivalent or permission of instructor

This course is a continuation of GER 1110.

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 setting. It recognizes an approved study-abroad educational experience in German speaking, comprehension, reading, and writing.

GER 2110-3 German Reading and Conversation (3 + 0)

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 emphasizes vocabulary and idiomatic phrases used in everyday language.

GER 2120-3 German Civilization (3 + 0)

Prerequisite: one year of college German or equivalent or permission of instructor

This course emphasizes the broadening of reading and conversational skills. It introduces the student to various aspects of German civilization, from its geography and history to its philosophical and political thought, arts, music, and modern living.

GER 2310-3 German Vocabulary Building and Grammar (3 + 0)

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)

Prerequisite: one year of college German or equivalent or permission of instructor

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 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 declamation 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 3310-3 Advanced German Composition and 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 for Business (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. Incorporates specialized language pertaining to marketing, banking, the structure of corporations, and the code of behavior in the business world; the social protection of the gainfully employed; transportation; import; and export. Excellent exercises for reading/comprehension on today's topics are included.

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 3510-3 Lessing, Goethe, and Schiller (3 + 0)

Prerequisite: two years of college German or equivalent or permission of instructor

This survey course covers the history of the German drama. The works selected are read and analyzed. Class periods are devoted to lectures on historical background, biography and criticism, reading, translation of the works for appreciation or alertness, class discussion in German, and oral or written reports.

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 study-abroad 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 4110-3 The German Novel of the 19th and Early 20th Centuries (3 + 0)

Prerequisites: three hours of third-year college German or permission of instructor, satisfaction of all Level

I and Level II General Studies course requirements, senior standing

This course presents the development of the German novel and short novel, with emphasis on the principal writers of prose fiction of the 19th and early 20th centuries. Reports and discussions of representative works, supplemented with lectures on biography and historical background are required. Conducted in German. (Senior Experience)

GER 4120-3 German Drama of the Nineteenth and Twentieth Centuries (3 + 0)

Prerequisites: three hours of third-year college German or permission of instructor, satisfaction of all Level

I and Level II General Studies course requirements, senior standing

This course is a continuation of GER 4110. Presents development of the German drama, with emphasis on the dramatists of the 19th and 20th centuries. Principle works of Tieck, Kleist, Hebbel, Ludwig, Hauptmann, and Brecht, supplemented with lectures on biography and historical background, are included. Conducted in German. (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.

Health Care Management

HCM 3010-3 Health Care Organization (3 + 0)

Prerequisite: junior standing

Corequisite: 100 hours volunteer work in a U.S. health care facility for those students with no prior health

care experience

This courses analyzes organizational structure, the nature of health, and health care delivery. Emphasis is placed on the interrelatedness of cultural, economic, political, 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)

Prerequisite: HCM 3010 or may be taken concurrently

This is a course that is designed to provide a general orientation to management practices in the field of health care. Emphasis is placed on management concepts, processes, and theoretical content considered necessary for people who intend to practice in a health care management position.

HCM 3030-3 Health Care Jurisprudence (3 + 0)

Prerequisite: HCM 3010 or may be taken concurrently

This course examines the legal and ethical issues involved in the management and delivery of health care services. Emphasis is placed on negligence, contracts, confidentiality, labor relations, and current medical/ethical issues.

HCM 3300-3 Management Issues and Health Policy (3 + 0)

Prerequisites: HCM 3010 and HCM 3020 or may be taken concurrently

This course is designed to discuss the role of the health care manager in relation to health care planning, health policy, and other related management issues. The political process as it relates to policy development and health planning will be explored.

HCM 4020-3 Human Resource Management in Health Care (3 +0)

Prerequisites: HCM 3010 and 3020 or may be taken concurrently

This course is specifically designed to analyze human resource management functions as they affect employee productivity and satisfaction in health services organizations. The course stresses functions, structure, laws, and principles that are significant in human resource management.

HCM 4030-3 Financial Management in Health Care (3 + 0)

Prerequisites: HCM 3010 and 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. Emphasis is placed on the practical processes involved in the determination and analysis of revenues, costs, rates, working capital levels, budgets, and uses of the computer.

HCM 4040-3 Health Care Economics (3 + 0)

Prerequisite: 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 macro-economic perspective and how these theories are applied in the health service sector.

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, Health Care Management Practicum. Students are required to prepare a résumé, develop interview skills, determine placement agency and preceptor, and develop a proposal for the practicum under faculty guidance.

HCM 4510-6 Health Care Management Practicum (1 + 15)

Prerequisites: HCM 4500, plus either HCM 4030 or 4040

A capstone course designed to provide the student the opportunity to integrate and operationalize all previously learned health 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. (Senior Experience)

Health Education Services

HES 1050-3 Dynamics of Health (3 + 0)

Prerequisites: minimum performance standard scores on reading, writing, and mathematics preassessment

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 2000-3 Health Politics and Policy (3+0)

Prerequisites: permission of instructor

A basic study of the political issues impacting the planning and implementation of health care policy. Emphasis will be concentrated on the major factors that are dictating health care reform. The changing health care environment and the need for a universal/national health care policy will be considered. (General Studies, Level II, Social Sciences)

HES 2040-3 Introduction to Nutrition (3 + 0)

Prerequisites: satisfaction of the General Studies Level I Mathematics course requirement, ENG 1020, and

high school chemistry or permission of instructor

This course is a study of essential nutrients and their function in promoting total well-being of the individual. Necessary food requirements are analyzed and ways of satisfying these requirements are identified. (General Studies—Level II, Natural Science)

HES 2150-3 Alternative Therapies for Health and Healing (3 + 0)

Prerequisite: HES 1050 or permission of instructor

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 designed to acquaint non-health related majors 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 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 3080-3 Maternal and Child Nutrition (3 + 0)

Prerequisite: HES 2040 or permission of instructor

This course is designed to increase the student's knowledge about the physiological, psychological, sociological, and cultural factors that influence nutritional needs and eating habits of the growing family. Nutrient requirements, dietary planning guidelines, and techniques for assessing the 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.

HES 3100-3 Nutrition and Aging (3 + 0)

Prerequisite: HES 2040 or permission of instructor

This course is designed to provide students with knowledge about the physiological, psychological, and socioe-conomic changes that accompany aging and their impact on the dietary practices of the aging population. Nutritional education relevant to the older citizen is emphasized, including identification of community resources available to support older citizens in augmenting their food choices.

HES 3200-3 Nutrition and Sports Performance (3 + 0)

Prerequisite: HES 2040 or permission of instructor

This course is designed to enable students, through application of the principles of nutrition, to improve their health, fitness, and physical performance within the limits set by genetic endowment and level of training.

HES 3450-3 Dynamics of Disease (3 + 0)

Prerequisites: satisfaction of Level I General Studies course requirements, and BIO 1000 or 1080, or per-

mission of instructor

This course is designed to acquaint non-health-related majors with the dynamics of disease and human body responses to a variety of stressors. The course provides a conceptual basis for understanding the mechanisms and principles by which pathological consequences are produced. The student will be required to develop and test a hypothesis related to a potential or actual health problem. (General Studies—Level II, Natural Science)

HES 3500-3 Intermediate Nutrition (3 + 0)

Prerequisites: ENG 1010 and ENG 1020; General Studies Level I Mathematics; HES 2040; BIO 1000 or 1080 This course is a continuation of HES 2040, Introduction to Nutrition. Digestion, absorption, transport, and metabolism will be examined in relation to human health, fitness, and prevention of disease. Biologic, psychologic, sociologic, and cultural factors will be considered.

HES 3600-3 Ethical Decision Making in Health Care (3 + 0)

Prerequisite: major in health care related field

This course is designed to assist nurses and others in health care fields become familiar with ethical decision-making models, apply ethical decision-making models to dilemmas in their own clinical practice, and adopt an appropriate, ethical decision-making model in their own clinical practice.

HES 3800-4 Clinical Pathophysiology (4 + 0)

Prerequisite: BIO 2320 or equivalent

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 biochemical 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 3820-3 Health Care Counseling (3 + 0)

Prerequisite: registered nurse status or permission of instructor

This course is designed to prepare students to apply operationalize concepts and theories of health care courseling. It is for teachers, nurses, health educators, and allied health professionals whose primary goal or role is not counseling, although counseling may be an important part of their responsibilities.

HES 4520-3 Internship in Gerontology (3 + 0)

Prerequisites: all required courses in the gerontological services minor; permission of the Gerontology

Minor Curriculum Committee required on course substitutions and on agency placements

Designed for non-health care management students minoring in gerontological services. The internship site must be approved by the Gerontology Minor Curriculum Committee and should be taken after all required courses in the minor have been completed. The course provides an opportunity for students to apply coursework to a professional setting serving older persons. Exceptions to policy must be approved by the Gerontology Minor Curriculum Committee.

History

HIS 1000-3 American Civilization (3 + 0)

Prerequisites: 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)

HIS 1010-3 Western Civilization to 1715 (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests 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 and early modern periods. (General Studies—Level II, Historical)

HIS 1020-3 Western Civilization since 1715 (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests A history and culture of Western civilization from 1715 to the present; the old regime and revolutions, 19th-century nationalism and liberalism, and the crises of wars and values in the 20th century. (General Studies—Level II, Historical)

HIS 1100-3 American West (3 + 0)

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)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests History of the growth and development of Colorado, with primary emphasis on the 19th century. Examines Native American influence; Spanish, French, and U.S. exploration; mining and trapping; and early settlements and pioneer life. (General Studies—Level II, Historical)

HIS 1210-3 American History to 1865 (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests 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)

HIS 1220-3 American History since 1865 (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests. This course covers the immediate background to present-day America, beginning with the Civil War and culminating with World War II. Such topics as industrialism, emergence of the U.S. as a world power, Progressivism, the First World War, the Roaring Twenties, and the Great Depression will be treated. (General Studies—Level II, Historical)

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 be considered. (General Studies—Level II, Historical)

HIS 1400-3 History of Popular Culture (3 + 0)

This is an introductory course into the history of American popular culture. Students will learn about the relationship of popular culture (popular music, movies, television, and the popular cultural expressions) and society in the 20th century.

HIS 1530-3 Sports in America (3 + 0)

Sports in America 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

(WMS 1650) Women in U.S. History (3 + 0)

Prerequisites: minimum performance standard scores on reading and writing preassessment placement tests 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. We witness 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 is granted for only one prefix: HIS or WMS. (General Studies—Level II, Historical)

HIS 1910-3

(CHS 1010) History of Meso-America: Pre-Columbian and Colonial Periods (3 + 0)

Prerequisites: CHS 1000 and minimum performance standard scores on reading and writing preassessment

placement tests

This course provides an opportunity to study the indigenous cultures of Meso-America during the pre-Columbian period and focuses on social, artistic, scientific, and engineering artifacts before and after the conquest of Mexico and the Southwestern U.S. by Spain. Credit is granted for only one prefix: HIS or CHS. (General Studies—Level II, Historical; Multicultural)

HIS 1920-3

(CHS 1020) History of the Chicano in the Southwest: Mexico and U.S. Periods (3 + 0)

Prerequisites: CHS 1010 or permission of instructor, minimum performance standard scores on reading and

writing preassessment tests

This course begins with the Mexican War of Independence (1810) and concludes with an in-depth study of the historical development of the contemporary Chicano world. This historical survey provides an overview of the Mexican American and Chicano population in the United States. The class will study complex ethnic, class, gender, generational and regional relations within this group and within the larger multicultural environment of 19th and 20th century North America. Credit is granted for only one prefix: HIS or CHS. (General Studies—Level II, Historical; Multicultural)

HIS 1930-3

(NAS 1930) History of Indigenous/Hispanic Americans (3 + 0)

Prerequisites: minimum performance standard scores of reading, writing, and mathematics preassessment

placement tests

This course traces the development of indigenous and Indo-Hispanic civilization in North America from prehistoric origins to the present. (General Studies—Level II, Historical; Multicultural).

HIS 1940-3

(AAS 1130) Survey of African History (3 + 0)

Prerequisites: 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 is 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)

HIS 2650-3

(WMS 2650) Women of the West (3 + 0)

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 is granted for only one prefix: HIS or WMS.

HIS 2770-3 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 modern period.

HIS 2820-3

(CHS 2120) Mexico: Independence to Revolution, 1810-1910 (3+0)

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 is granted for only one prefix: HIS or CHS.

HIS 2830-3

(CHS 2130) Mexico: Revolution to the Present, 1910-1990s (3 + 0)

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. Describes how the United States government and private citizens have influenced Mexico's history. Credit is granted for only one prefix: HIS or CHS.

HIS 2950-3

(AAS 2130) West African Civilizations (3 + 0)

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 is granted for only one prefix: HIS or AAS. (General Studies—Level II, Historical; Multicultural)

HIS 3010-3 History of Denver (3 + 0)

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 3030-3 Ancient Orient and Greece (3 + 0)

Prerequisite: satisfaction of Level I General Studies course requirements

The Ancient Orient and Greece is an upper-division survey course, which is designed to familiarize the student with the histories and cultures of the Near East and Greece of antiquity, the contributions those societies made to civilization, and their overall significance in the historical development of humans. (General Studies—Level II, Historical)

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

Rome and the Caesars is an upper-division survey course that concentrates on the history of Rome from its founding in the eighth century B.C. 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)

Prerequisites: 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 Celtic 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)

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

Course covers the history and culture of Europe from circa 325 to 1300 B.C., 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)

Prerequisites: satisfaction of Level I General Studies course requirements

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 3210-3 French Revolution and Napoleon 1715–1815 (3 + 0)

After studying causes, students examine the French Revolution in detail. Also considered are the effects of the Revolution and Napoleon upon France and the major countries of Europe.

HIS 3230-3 Nineteeth Century Europe (3 + 0)

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 3250-3 World War I (3 + 0)

Prerequisite: junior or senior standing

This course provides an in-depth examination of the origins, course, consequences, and outcomes of World War I.

HIS 3260-3 Twentieth Century Europe, 1914–1939 (3 + 0)

Internal developments in the major European nations are analyzed from World War I to 1939. Primary emphasis is placed on the impact of World War I, Versailles, the Russian Revolution, the rise of fascism, and international relations.

HIS 3270-3 Issues in European History (3 + 0)

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 3280-3 Modern Germany since 1789 (3 + 0)

The history and culture of Germany are studied against the background of the transformation from the underdeveloped and politically fragmented Holy Roman Empire in 1789 to the industrial giant and world power of the 20th century.

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)

Prerequisites: HIS 1020 or permission of instructor and satisfaction of Level I General Studies course

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. (General Studies—Level II, Historical)

HIS 3340-3 Ireland and the Irish (3 + 0)

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. May be repeated for credit as the course title changes.

HIS 3360-3

(WMS 3360) Women in European History (3 + 0)

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 is granted for only one prefix: HIS or WMS.

HIS 3370-3 The American Presidency (3 + 0)

Prerequisite: sophomore standing or above

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 3390-3 The Kennedy Assassination (3 + 0)

This course explores the background of the John Kennedy assassination, the event itself, and the aftermath. Special attention is paid to conflicting theories regarding the assassination.

HIS 3400-1-3 Biography as History: (Variable Topics) (1-3+0)

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)

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 1763-1787 (3 + 0)

Analyzes the structure of American society on the eve of the Revolution, the evolution of British imperial policy, and the causes of the Revolution. Military and diplomatic aspects of the era are stressed, as well as the forces that made for a more perfect union.

HIS 3460-3 Foundations of the American Constitution (3 + 0)

Examines constitutional and democratic thought from the Articles of Confederation to the Civil War. The Constitutional Convention, the ideas of Jeffersonians and Federalists, and the Supreme Court under Marshall and Taney will be emphasized.

HIS 3480-3 Early National Period 1790-1840 (3 + 0)

This course examines politics and society during the early republic. Major topics will include the development of political parties, the shift from Jeffersonian to Jacksonian democracy, the burgeoning reform movements, the status of the farmer in the trans-Appalachian West, and slavery.

HIS 3510-3 Civil War: Background (3 + 0)

This course is primarily concerned with the forces that produced the American Civil War. As a foundation for understanding those forces, it emphasizes the topics of slavery and the Old South.

HIS 3520-3 Civil War: War and Peace (3 + 0)

Covers the military and nonmilitary history of the Civil War years and examines the period of Reconstruction that followed the end of the war. It also seeks to familiarize 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 Shaping of Modern U.S. 1877-1920 (3 + 0)

Traces the rise of industrialism; the organization of laborers and farmers; the growth of American imperialism; and the spirit of reform in America and resulting social, political, and constitutional adjustments.

HIS 3550-3 American Business History (3 + 0)

This course is designed to familiarize students with the history of American business from the colonial period to the present. A central focus of the course will be the relationship of business to society. Among the special topics covered are the evolution of business strategies and structures, government-business relations, management-labor relations, technological innovations, and relevant aspects of American economic thought.

HIS 3570-3

(AAS 3570) African American History I (3 + 0)

Prerequisite: HIS 1210, HIS 1220, or permission of instructor

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. The course focuses on the themes and subjects that reveal the complexities of the black experience. Credit will be granted for only one of these prefixes: HIS or AAS.

HIS 3580-3

(AAS 3580) African American History II (3 + 0)

Prerequisite: HIS 1210, HIS 1220 or permission of instructor

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)

Prerequisite: satisfaction of Level I General Studies course requirements

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)

Traces the development of historic preservation in the U.S. and examines the role of the public historian in managing cultural resources.

HIS 3620-3 History of the Legal and Medical Professions (3 + 0)

This course will explore the historical, social, cultural, and organizational characteristics of the legal and medical professions.

HIS 3630-3 Historic Western Places (1 + 5)

The 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. The Twenties-The Thirties (3 + 0)

Covers the intellectual climate of the Twenties, domestic and foreign policies from Harding through Hoover, the Great Depression, the New Deal, and U.S. diplomacy on the eve of World War II. This course can be offered as two modules, one on the Twenties, and the other on the Thirties.

HIS 3660-3 Recent U.S. 1945–1970s (3 + 0)

Prerequisites: satisfaction of all Level I General Studies course requirements

This course treats the United States from 1945 to the 1970s, 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)

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. May be repeated for credit as the course title changes.

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.

HIS 3690-3 American Military History (3 + 0)

This 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)

Prerequisite: satisfaction of Level I General Studies course requirements

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)

Prerequisite: satisfaction of Level I General Studies course requirements

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)

Course explores the dynamic history of this volatile region, with special emphasis on the post-World War II period.

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 interest in World Ware 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 3800-3 Latin America: Empires (3 + 0)

This course traces and analyzes the political, social, and economic development of the Spanish and Portuguese empires in America from the initial period of exploration and conquest through the institutionalization of the imperial systems.

HIS 3810-3 Latin America: Republics (3 + 0)

Prerequisites: satisfaction of all Level I General Studies course requirements

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 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)

Prerequisites: 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 (3 + 0)

This course will examine major trends in popular culture. Topics include American lifestyles, beliefs, and customs. May be repeated for credit as the course title changes.

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 3860-3

(WMS 3860) Advanced U.S. Women's History (3 + 0)

Prerequisite: HIS 1210, HIS 1220, HIS/WMS 1650, or permission of instructor

This course provides an in-depth examination of issues pertinent to women of the Americas. Themes include pre-Columbian culture, immigration, work, family life, and women's rights. Credit will be granted for only one prefix: HIS or WMS.

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 landscapes, cities, and natural phenomena.

HIS 3890-1-2 Readings in History (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

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 (1 + 0)

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)

Prerequisite: junior or senior standing (should ideally be taken the semester before student teaching is done)
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

(HON 3850) American Culture I (3 + 0)

Prerequisites: HIS 1210, HIS 1220, or their equivalent, permission of MSCD Honors Program director, sat-

isfaction of all Level I General Studies course requirements

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: HIS or WMS. (General Studies—Level II, Historical)

HIS 4120-3

(HON 3860) American Culture II (3 + 0)

Prerequisites: HIS 1210, 1220, or their equivalent, HON 3850, permission of MSCD Honors Program

director, and satisfaction of all Level I General Studies course requirements

This course applies the theoretical perspectives to contemporary works representative of American life and thought. Credit will be granted for only one prefix: HIS or HON. (General Studies—Level II, Historical)

HIS 4320-3 Russia since 1905 (3 + 0)

Explores major developments in the domestic and foreign policies of 20th-century Russia. Emphasis is placed on revolutions, the social, political, and intellectual changes that have come to Soviet Russia.

HIS 4650-3 World War II 1939–1948 (3 + 0)

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)

Prerequisites: HIS 1010, HIS 1020, HIS 1210, HIS 1220; at least nine upper-division history hours; satisfaction 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 cap-

stone course and is required of history majors. (Senior Experience)

HIS 4840-3 Seminar in American Culture (3 + 0)

This seminar will deal with various selected topics that relate to American history and culture.

HIS 4860-3

(WMS 4860) History of Feminism and Women's Rights (3 + 0)

Prerequisites: 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.

Of the above courses, the following may be repeated if the topics are changed: HIS 3070, HIS 3270, HIS 3350, HIS 3400, HIS 3670, HIS 3840, HIS 3890, HIS 3980, and HIS 4000.

Honors

HON 2100-4

(MTH 1450) Calculus and Mathematica I (4 + 0)

Prerequisites: MTH 1110, MTH 1120; or MTH 1400, or equivalent; enrollment in the Honors Program or

permission of the instructor

This course is an introduction to calculus, using the computer software Mathematica. Topics covered include derivatives of algebraic functions, trigonometric functions, and transcendental functions, applications of derivatives, the definite integral, the fundamental theorems of calculus, and applications of integration. This course may be substituted for MTH 1410 (Calculus I) wherever MTH 1410 is required. Credit will be given toward graduation for only one of the following: MTH 1410, MTH 1450, or HON 2100.

HON 2600-4

(MTH 2400) Calculus and Mathematica II (4 + 0)

Prerequisites: MTH 1450, MTH 1410, or HON 2100; enrollment in the Honors Program or permission of

the instructor

This course is a continuation of the study of calculus begun in Calculus and Mathematica I, using the computer software Mathematica. Topics covered include exponential growth and related differential equations, parametric equations, splines, applications, and techniques of definite integration, series, and approximations. May be substituted for MTH 2410 wherever MTH 2410 is required. Credit is given toward graduation for only one of the following: MTH 2400, MTH 2410, or HON 2600.

HON 2750-3 The Legacy of Arts and Letters I (3 + 0)

Prerequisites: ENG 1010, the Level I Communication course requirement, permission of the Honors Pro-

gram director

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)

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)

HON 2800-3 History of Science (3 + 0)

Prerequisites: MTH 1110; either ENG 1010 or satisfaction of the Level I Communication course require-

ments; 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, math, and biology. (General Studies—Level II, Natural Science)

HON 2810-3 Development of Experimental Science (3 + 0)

Prerequisites: MTH 1110 and either ENG 1010 or satisfaction of the Level I Communication course

requirements; admission to Honors Program or permission of the Honors Program director

An in-depth study of great scientific achievement with an emphasis on historical experiments and their significance to the evolution of science. Experiments are performed by the students and collected data from these experiments are used to rediscover scientific laws. (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, Communication)

HON 3800-3

(PSC 3090) Revolutions and Social Change I (3 + 0)

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. (General Studies—Level II, Social Sciences)

HON 3810-3

(PSC 3090) Revolutions and Social Change II (3 + 0)

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. (General Studies—Level II, Social Sciences)

HON 3850-3

(HIS 4110) American Culture I (3 + 0)

Prerequisites: HIS 1210, HIS 1220 or their equivalent; permission of the Honors Program director; satis-

faction of all Level I General Studies course requirements

Designed to acquaint the student with a variety of interdisciplinary perspectives on American culture. (General Studies—Level II, Historical)

HON 3860-3

(HIS 4120) American Culture II (3 + 0)

Prerequisites: HIS 1210, HIS 1220 or their equivalent; HON 3850; permission of the Honors Program

director; and satisfaction of all Level I General Studies course requirements

Applies the theoretical perspectives from American Culture I to contemporary works best representing American life. (General Studies—Level II, Historical)

HON 4920-3 Senior Honors Seminar (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 option 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 option to HON 4920.

Hospitality, Meeting, Travel Administration

HMT 1020-3 Principles of Hotel/Restaurant Administration (3 + 0)

An introductory course in hotel and restaurant operations. Provides the beginner with concepts of hotel/restaurant organization, profit and loss statements, management controls, and marketing concepts.

HMT 1030-2 Principles of Travel Administration (2 + 0)

An introductory course in travel operations. Introduces the student to the history and concepts of the travel industry. Covers operational concepts, vocabulary, career opportunities, and interrelationships between the travel profession and other hospitality professions.

HMT 1040-2 Principles of Meeting Administration (2 + 0)

An introductory course in meeting operations, introducing the history and concepts of the meeting industry. Provides an understanding of the operational concepts, vocabulary, career opportunities, and interrelationships between the meeting profession and other hospitality professions.

HMT 1610-4 Kitchen Procedures and Production I (3 + 2)

An introductory course in quantity and commercial food production and sanitation procedures. Course includes sanitation and health practices, safety, use and care of equipment and tools, basic cooking principles, and recipe and menu development.

HMT 1620-4 Kitchen Procedures and Production II (3 + 2)

Prerequisite: HMT 1610

A continuation of HMT 1610. Course covers application of principles from HMT 1610 in the preparation and service of eggs and dairy products, meats, poultry, game, fish and shellfish, vegetables, potatoes and starches, salads and dressings. Principles of the bakeshop, breads, pastries, international flavor principles, plate presentations, hors d'oeuvre, appetizers, and breakfast/brunch are also covered.

HMT 1810-4 Basic Ticketing and Reservations Procedures (4 + 0)

A course designed to give the student a basic working knowledge of domestic ticketing, reservation systems, and ticket processing through an agency until commissions are received. Students learn manual processes. Computer reservation and ticketing formats are learned from standard availability formats through standard ticketing formats.

HMT 1820-2 Travel References and Case Studies (2 + 0)

Prerequisite: HMT 1810 must be taken at the same time or must have been taken prior to taking this course This course focuses upon international travel. Students learn international ticketing, itinerary development, and ticketing processing. Students learn both manual and computer techniques.

HMT 1830-4 Cruise Development, Marketing, and Sales (4 + 0)

A course focusing on the cruise product, cruise development, marketing cruises, and cruise point-of-sale techniques. Students learn cruise conferences, markets, cruise sales tools, cruise reservations and ticketing processes, and group cruise sales techniques. Students learn cruise sales through list selection, individual and group telemarketing, and individual and group sales activities. A guided individual research project will also be required.

HMT 1850-3 Multicultural/Multinational Cultural Adjustment/Readjustment (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement test

This course will introduce students to both multicultural and multinational employment opportunities. Concentration will be on job opportunities in other countries and employment opportunities for jobs based in the U.S. with travel to other countries. The unique opportunities for those of color will be emphasized. Specific learning modules will be included for those who are black, of Hispanic origin, and Native American. (General Studies—Level II, Social Sciences; Multicultural)

HMT 2000-3 Externship I (0 + 9)

Prerequisite: formal written approval of the HMTA program externship supervisor

A beginning, on-the-job, learning experience in the area of emphasis of the HMTA student. A cooperating agency or industry develops a practical as well as academic program of learning and work that, when approved by the HMTA externship supervisor or the department chair, becomes the student's course outline. Students are expected to meet employee standards of the cooperating agency as well as the academic standards of the HMTA program.

HMT 2500-2 Applied Hotel/Restaurant Operations (2 + 0)

Prerequisite: The student must be anticipating or be currently employed in the industry, or be a student in

the HMTA program, or have the instructor's permission.

The student learns how classroom theory is actually applied in hotels and restaurants. Guest-lecturers from the hotel and restaurant industries take students through operations. Classes meet in hotels and restaurants.

HMT 2560-3 Hotel Financial Accounting (2 + 2)

Prerequisites: ACC 2010 and HMT 1020

A continuation of basic accounting techniques learned in ACC 2010; concentrating on specific hotel industry accounting procedures for front office, sales and payroll. Balance sheets and income statements will also be covered.

HMT 2760-3 Meeting Administration I (2 + 2)

Prerequisite: permission of the instructor and basic computer literacy

The first course in meeting planning for majors or for those who believe they may be called on to plan a meeting for their employer or organization. Considers the basics of budgeting, site selection, exhibits, transportation, food and beverage, functions, publicity and audiovisuals for meetings.

HMT 2840-4 Tour Operations (4 + 0)

An introduction to tour operations, this course provides both knowledge and skill in tour development. Saturday and weekend tours are planned by students through group work. Each student develops his/her own tour as well as planning tour organization, tour marketing, tour management and tour evaluation through a series of up to 17 tour planning group projects.

HMT 2850-3 Travel Agency Accounting (2 + 2)

Prerequisite: HMT 1810

This course is taught on a working office concept with hands-on recording of all types of accounting transactions encountered in a travel agency. Students will set up their own set of books for a travel agency as they learn and apply accounting principles.

HMT 2860-2 Tourism (2 + 0)

This course introduces students to tourism theories including the tourism multiplier and the tourism account in the balance of payment. State and national tourist offices and their approaches toward developing tourism are also discussed.

HMT 3510-3 Hotel Administration I (3 + 0)

Prerequisite: HMT 1020 or permission of instructor

To develop an awareness of all facets of hotel-lodging operations. General hotel organization with in-depth study of individual departments as they relate to administration will be covered.

HMT 3520-3 Hotel Administration II (3 + 0)

Prerequisite: HMT 3510

A continuation of Hotel Administration I, HMT 3510. Emphasis on interrelation of hotel departments for maximum guest service and profitability of lodging property. Course brings together all facets of administration, sales, and marketing through effective administrative organization.

HMT 3560-3 Hotel/Restaurant Law (3 + 0)

Prerequisite: HMT 3670, or HMT 3520, or permission of instructor

Overview of contemporary hotel and restaurant law as it pertains to the civil rights and legal obligation of hotels and restaurants to guests. Includes responsibilities, liabilities, and rights of hotel keepers and restaurateurs, with study of pertinent and precedent legal cases.

HMT 3570-3 Hospitality Marketing (3 + 0)

Prerequisite: junior standing or permission of instructor

This course provides applications of principles of marketing and advertising to the specific needs of the hospitality industry. Students will submit a major paper based on field work in their area of concentration analyzing a particular marketing problem.

HMT 3600-3 Beverage Control (3 + 0)

Prerequisite: HMT 1020 or permission of instructor

This course gives students the knowledge to function as a manager of beverage operations in the hospitality industry. Procurement, preparation, and service to final accountability of sales and costs are covered.

HMT 3610-3 Enology: The Study of Wine (3 + 0)

Prerequisite: a minimum age of 21 years

This course is designed for the student who wishes to learn the basics of wine knowledge for personal gratification, as well as to serve the student who expects to have a professional interest in the selection or service of wine. Viticulture, vinification, service, and critical appraisal of wines of the major wine regions of the world will be covered.

HMT 3650-3 Hospitality Property Management (2 + 2)

Prerequisite: HMT 1020, HMT 3510, or HMT 3660

An examination of the fundamentals of blueprint reading, building, construction safety and utility requirements and mechanical systems as they relate to the hotel/restaurant business.

HMT 3660-3 Restaurant Administration I (3 + 0)

Prerequisite: HMT 1020 or permission of instructor

To develop an awareness of all facets of food and beverage sales as they relate to restaurant operations. The basics of personnel supervision and management will be included. Purchasing, record keeping and accounting will be stressed.

HMT 3670-3 Restaurant Administration II (3 + 0)

Prerequisite: HMT 3660

The culminating course in restaurant administration. It brings together all facets of administration, management, and marketing touched on in previous courses. Employer-employee relations, purchasing, sales, and public relations are included with the goal of operating a profitable business.

HMT 3750-3 Promotion Materials: Analysis and Design (2 + 2)

Focus is on the creative conceptualization and technical production of complex packages of printed materials for meetings, tours, hotels, and restaurants as aids in promotion and marketing. Students learn process theory and applications. Laboratory work is included.

HMT 3760-3 Meeting Administration II (2 + 2)

Prerequisites: HMT 2760 and computer literacy

A professionally oriented course for those preparing for a career as an exposition manager or association meeting planner. Stresses elements of exposition development and management and adult learning theory as applied in association and meeting agendas. A total exposition plan is required.

HMT 3800-2 Risk Management in the Travel Industry (2 + 0)

Prerequisites: HMT 1810, HMT 1820, HMT 1830 or permission of instructor

Risk Management reviews the major areas of risk in the retail travel agency, airline, corporate travel department, and tour firm. Students learn both insurance and noninsurance approaches toward analyzing, reducing, sharing, and eliminating corporate and personal risks through texts, case studies, and hands-on experience.

HMT 3830-2 Inflight Services (2 + 0)

Inflight services explores the range of inflight services careers. Students learn the job duties of a flight attendant and of inflight supervisory/management personnel. Safety, security, customer handling, and normal procedures are discussed in detail. The course concludes with approaches toward getting a job in inflight services.

HMT 3840-2 Airport Services (2 + 0)

Airport services explores the jobs held by airline employees in public contact positions from arrival and baggage check-in, through aircraft boarding, and including ramp service positions. Job classifications, duties, and requirements are reviewed.

HMT 3850-4 Financial Management in the Travel Industry (4 + 0)

Prerequisites: HMT 1030 and MTH 1210 or permission of instructor

Principles of travel industry budgeting are taught in accordance with the Airlines Reporting Corporation and Cruise Lines International Association requirements. Financial ratios and financial management case problems are studied and travel payment systems are reviewed.

HMT 3860-2 Incentive Travel (2 + 0)

Prerequisites: HMT 1810 and HMT 1820 or permission of instructor

As an introduction to incentive travel, the student will obtain an overview of the incentive travel industry. Business incentive programs will be studied and each student will prepare an incentive travel program for a Colorado company as a group project. Students may expect to spend additional hours undertaking out-of-class projects.

HMT 3890-2 Cases in Corporate Travel Management (2 + 0)

Cases relating to major corporate travel management problems are explored in-depth with corporate travel industry situations developed as cases.

HMT 4000-3 Externship II (0 + 9)

Prerequisite: satisfactory completion of HMT 2000 or approved equivalent learning experience

An advanced, on-the-job, administrative learning experience in the emphasis areas of the HMTA major. An approved plan from a cooperating agency requiring both work and academic learning serves as the course outline. Students meet all requirements as for HMT 2000 but on a more rigorous, advanced, and administrative level.

HMT 4010-1 Externship III (0 + 3)

Prerequisites: HMT 4000 and/or life experience

A supplementary apprenticeship providing an in-depth learning experience in a discrete portion of the student's HMTA area of emphasis, either not covered or only surveyed in previous externships or job experience.

HMT 4040-2 Senior Hospitality Research Experience I (2 + 0)

Prerequisite: senior standing, 12 hours in major emphasis, MTH 1210, senior-level writing ability, and sat-

isfaction of all Level I and Level II General Studies course requirements

This course is designed to provide the approaches and techniques necessary for senior students to analyze needs, create and develop a major research project, and effectively interpret results and their application to their major emphasis area. (Senior Experience)

HMT 4400-2 Senior Hospitality Research Experience II (2 + 0)

Prerequisites: HMT 4040, satisfaction of all Level I and Level II General Studies course requirements, and

senior standing

This course is a continuation of HMT 4040 and involves instructor-guided completion of the research project proposal developed in HMT 4040. Project completion benchmarks are established. Class oral presentations and discussions of work accomplished are included. (Senior Experience)

HMT 4500-3 Hospitality Sales (2 + 2)

Prerequisite: HMT 3570 or MKT 3000

Both inside and outside retail sales in the hospitality industry are addressed in a typical hospitality sales development process. Moving from individual to group sales, the course then reviews specialized hospitality industry sales jobs including travel agency outside sales, convention sales, association meeting sales, and various technical hotel sales positions.

HMT 4650-3 Hospitality Employee Resource Development (3 + 0)

Prerequisite: HMT 3670, or HMT 3520, or permission of instructor

Course addresses specific challenges to personnel administration for the hospitality industry. Subjects include recruitment, training, motivation, morale, personnel administration tools, personal organization, and supervisory skills for organizational productivity.

HMT 4660-3 Training and Development in Hospitality (3 + 0)

Prerequisites: junior or senior standing, HMT 4650, a minimum of 20 hours of HMT courses and either

HMT 3520 or HMT 3670

A continuation of HMT 4650, which is designed to build upon the knowledge and concepts learned in relation to employee resource development. Course includes group dynamics and problem solving combined with the writing and training of excellence standards.

HMT 4730-3 Principles of Negotiation (2 + 2)

Prerequisite: permission of instructor

Basic principles of individual and team negotiation as applied to industry are covered. Emphasis is placed on developing aspiration levels and fall-back positions, strategies and tactics of accomplishing the levels, and thorough preparation for the negotiation. Students participate in two negotiating situations.

HMT 4790-2 Seminar in Meeting: Variable Topics (2 + 0)

Prerequisite: HMT 3760 or permission of instructor

The course considers special problems in meeting administration such as transportation regulatory laws. Emphasis is placed upon problem-solution approaches and prediction. Major paper required.

HMT 4810-4 Tour Management (3 + 2)

Prerequisites: junior or senior standing, HMT 2840, or permission of instructor

The concepts of professional and ethical our development are taught from a destination development and from a group organizational interest point of view. Tour administration is taught from accounting, marketing, organization, and resource development points of view. Appropriate follow-up is stressed. Students plan their own tours and select one weekend tour, which all students take.

HMT 4820-4 Marketing in the Travel Industry (4 + 0)

Prerequisites: HMT 1810 and HMT 1820

This course is designed to provide an introduction to travel marketing. Concentration will be on the development of an annual marketing plan. Upon completion, the student should be able to perform all basic duties of a travel executive with marketing responsibilities.

HMT 4830-2 Corporate Travel Management (2 + 0)

Prerequisites: HMT 1810, HMT 1820, HMT 1830 or permission of instructor

Corporate Travel Management provides an overview of the job held by the corporate executive in charge of travel. It describes corporate travel department organization, job duties, and job requirements, and it provides an education in the development of a corporate travel policy, request for proposals, and vendor relations.

HMT 4840-4 Travel Industry Management (4 + 0)

Prerequisites: HMT 1810, HMT 1820, HMT 1830 or permission of instructor

A simulation travel agency start-up exercise, including Airline Reporting Corporation (ARC) appointment filing, is followed by learning modules relating to starting or buying and managing retail travel agencies. Travel law and risk management are covered in detail. Tour companies, all-cruise agency, and corporate-travel department management approaches are studied as well. The course ends with a complete review of travel agency and corporate travel automation management.

HMT 4850-2 Airline Sales (2 + 0)

Prerequisites: HMT 1810, HMT 1820, and HMT 4040

Airline Sales is a course designed to introduce students to the field of full-time sales work in the marketing division of major U.S. and international air carriers. It emphasizes the entry-level position of a regional telemarketing airline customer service representative, but explores in detail sales representative jobs with district and regional responsibilities for interline sales, travel agency sales, and corporate sales. Both passenger and cargo sales are covered.

HMT 4890-2 Seminar in Travel: Variable Topics (2 + 0)

Prerequisites: HMT 2820 and HMT 4040 or permission of instructor

Current travel industry problems are considered in a group situation. Students are encouraged to explore areas and problems in which they feel a need or interest. The course is designed as a culmination of the travel administration major.

Human Performance, Sport and Leisure Studies

HPL 1000-2 Human Performance and Leisure Activities (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, Sport and Leisure Studies majors. May be repeated for credit as course title changes.

HPL 1010-2° Swim Level I (1 + 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.

HPL 1020-2 Swim Level II (1 + 2)

Prerequisite: student must be able to jump into deep water, level off and swim 25 consecutive yards of the front crawl

This course will develop each student's skill level in the crawl, breaststroke, elementary backstroke, sidestroke, backcrawl, and butterfly. Breathing techniques will be mastered in each stroke. The student's ability to float and tread water will also be a topic of instruction. An understanding and respect for the water and its surroundings will be emphasized in the "safety precautions" portion of the course.

HPL 1030-2 Swim Conditioning (1 + 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 1060-2 Lifeguard Training (1+2)

Prerequisites: Student must have strong intermediate swimming skills and must have, or acquire, current American Red Cross Standard First Aid and Adult CPR Certificate (or equivalents).

This course provides the minimum skill training for a person to quality as a nonsurf lifeguard.

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 1140-2 Ballet Level II (1 + 2)

Prerequisite: HPL 1130

This course is designed for adults with some dance experience. Center work is stressed with more intricate combination pattern. Performance quality within the style is emphasized.

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 1170-2 Jazz Level II (1 + 2)

Prerequisite: HPL 1160 or permission of instructor

This course is designed for the student who has a basic jazz background. Isolation warm-ups and center work will be challenged and movement combinations lengthened. Performance quality will be stressed.

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 1190-2 Modern Dance II (1 + 2)

Prerequisites: HPL 1140, HPL 1160, HPL 1180, or equivalent, or permission of instructor

This course is designed for the student with a basic dance background. Placement, centering, strength and coordination will be stressed. Performance quality will be developed.

HPL 1200-2 Modern Dance and Jazz Dance Level II (1 + 2)

Prerequisites: HPL 1160, 1180 or permission of instructor

This course is designed to bring the student to an intermediate level in jazz and modern dance techniques. This class should not be taken without prior dance experience.

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 1220-2 Repertory Choreography (1 + 2)

Prerequisites: minimum of one semester of HPL 1130 and 1180 or equivalent experience or permission or instructor

This course is designed to give the student the opportunity to experience dance at a professional level, participating in regular rehearsals and various other aspects of producing a dance performance.

HPL 1230-2 Square and Folk Dance (1 + 2)

Square and folk dance activities provide an opportunity to learn meaningful movement activities, as well as develop lifetime psychomotor skills that can be used to obtain recreational and fitness objectives.

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 1250-2 Tap Dance II (1 + 2)

Prerequisite: HPL 1240 or permission of instructor

This course is designed to provide advanced techniques and skills in tap dancing. It is designed primarily for the student who has had some previous experience in basic tap dance and wishes to acquire additional skills and proficiency in the activity.

HPL 1260-2 Country Western Dance (1 + 2)

Country Western Dance offers the opportunity to gain an understanding of various contemporary dances, as well as develop the confidence and motor skills necessary to enhance psychomotor dance performance.

HPL 1320-2 Badminton (1 + 2)

This is a course intended for the beginner to intermediate player. The course covers individual skills, rules, and strategies.

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 1360-2 Tennis Level II (1 + 2)

Prerequisite: HPL 1350 or permission of instructor

This is a course for the player who is above 2.5 USTA rating and/or has had a level I course. Intermediate skills and strategies are presented.

HPL 1370-2 Tennis Level III (1 + 2)

Prerequisite: HPL 1360 or permission of instructor

This is a course for the advanced player above 3.5 USTA rating. In-depth strategy and skill development are presented.

HPL 1380-2 Racquetball Level I (1 + 2)

This course is designed to introduce the student to racquetball as a recreational sport and develop the skills, knowledge, and sportsmanship appropriate to participate in this activity.

HPL 1390-2 Racquetball Level II (1 + 2)

Prerequisite: HPL 1380 or permission of instructor

This course is designed to improve the skills and enhance the strategies of the beginning level player. Time is devoted to the perfecting of shots and shot selection along with court strategy.

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 1420-2 Gymnastics (1 + 2)

This is a basic course in gymnastics offered to those who desire to learn fundamental skills in either men's or women's Olympic events.

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 1540-2 Volleyball I (1 + 2)

This course is designed for the beginning player in volleyball. The course covers skills, team play, and rules. Intermediate-level players may be included.

HPL 1550-2 Volleyball II (1 + 2)

Prerequisite: HPL 1540 or adequate playing experience

This course is designed for students with prior volleyball experience, either from HPL 1540 or outside competitive participation.

HPL 1570-2 Soccer (1 + 2)

This course is designed to introduce the beginner to the fundamentals of the game of soccer: kicking, control, passing, dribbling, throw-ins, heading, charging, tackling and goalkeeping, as well as basic strategy and knowledge of the rules and regulations of the game.

HPL 1580-2 Team Handball (1 + 2)

Individual skills of team handball will be taught and practiced. Offensive and defensive team strategies will be covered in this course.

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 1700-2 Personal Defense (1 + 2)

This course will teach self-defense skills designed for contemporary urban needs. Appropriate for women and men.

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 is designed to introduce the beginning student to the basic concepts and methodologies of Yoga according to the Sutras of Pantanjali and the guidelines of Hatha Yoga Pradipika.

HPL 1850-2 Hatha Yoga II (1 + 2)

Prerequisite: HPL 1840 or permission of instructor

This is a course for students who are already familiar with the content of Yoga I. Yoga II is an advanced course that uses pranayamas, meditation, and mudras to achieve the health and wellness benefits of Ayurvedic Medicine.

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.

HSL 1500-2 Human Performance, Sport and Leisure Studies (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.

HPS 1600-2 Introduction to Human Performance and Sports (2 + 0)

For human performance and sport majors. A survey course designed to orient prospective teachers to the field of human performance and sports. Lecture, discussion, and field experience.

HPS 1620-2 Fundamentals of Movement (2 + 0)

This course is designed to introduce HPSL majors and minors to the mechanics of human movement through the determination of efficient movement, the study of mechanical principle, and the application of mechanical principle to fundamental skills.

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 1660-2 Swimming/Emergency Water Safety (1 + 2)

Designed to bring the HPSL major/minor to the American Red Cross Intermediate Swimmer level, and to present the opportunity to achieve the American Red Cross Emergency Water Safety certificate, which is the minimum prerequisite for the Water Safety Instructor course.

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.

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 2100-2 Officiating (1+2)

Prerequisite: HSL 1500 in appropriate sport

This course is designed for students who wish to acquire or perfect officiating skills. Field experience assignments will be a required part of the classes. May be repeated for credit as the course title changes.

HPS 2130-3 Activities and Health for the Elementary Child (3 + 0)

Prerequisite: EDU 2120

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 2440-3 Dance Production (3+0)

Prerequisites: HSL 1501, Repertory Choreography, HSL 150G, Improvisation and Choreography, HSL 1502, Teaching Dance, 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 promotion are part of this course.

HPS 2500-3 Activities for the Young Child (2 + 2)

Course is designed to acquaint the student with appropriate sports, games, gymnastics, and tumbling skills for the young child. Teaching progressions, safety factors, items of equipment, spotting techniques, and leadership experiences are included.

HPS 2520-2 Rhythms for the Young Child (2 + 2)

Participation and instruction in the fundamental movements, forms, and patterns of creative dance, rhythms, and singing games for children.

HPS 2580-3 Movement Education (3 + 0)

Participation and instruction in the problem-solving method of teaching movement exploration. Designed for teachers of preschool and elementary children. Field experience assignments will be a required part of the class.

HPS 2720-2 Fundamentals of Coaching (2 + 0)

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 2780-3 Care and Prevention of Athletic Injuries (2 + 2)

Prerequisites: HPS 2060 or current advanced first aid and CPR certification

This course is designed to provide a study of recognition, cause, prevention, treatment, and various physical therapeutic procedures for sports injuries.

HPS 3000-3 Health Programs in Human Performance and Sport (3 + 0)

A course designed to give the prospective professional in human performance and sports a foundation in health and safety education, including content for health and safety instruction, promotion of healthful living, and an understanding of the health services program.

HPS 3300-3 Anatomical Kinesiology (3 + 0)

Prerequisite: BIO 2310 or acceptable human anatomy course, and satisfactory completion of Level I Gen-

eral Studies course requirements

A study of the musculature of the human body. Analysis of joint movement and muscular involvement in various physical activities will be emphasized. Applications of movement analysis to teaching effectiveness and rehabilitative programs will be discussed. (General Studies—Level II, Natural Science)

HPS 3320-3 Biomechanics (2 + 2)

Prerequisite: HPS 3300 or permission of instructor

Application of the principles of mechanics, physics, and mathematics to the analysis of sport activities. Cinematography, motion analysis, and prediction of performance will be essential aspects of this class.

HPS 3340-3 Physiology of Exercise (2 + 2)

Prerequisite: BIO 2320, or acceptable human physiology course, HPS 1640, and satisfactory completion

of Level I General Studies course requirements

This course introduces the student to the physiological response of humans 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 Methods of Teaching Human Performance and Sports for the Adolescent and Young Child (3 + 0)

Prerequisite: junior standing

Course is designed to present alternative instructional strategies on a practical application level to potential professionals who will instruct adolescents and young adults in a school setting and the community. A cumulative strategies course established to reach those who shortly will go into their student teaching learning experience or professional field experience in human performance and sports.

HPS 3460-3 Evaluation and Measurement in Human Performance, Sport and Leisure Studies (3 + 0)

Prerequisite: junior standing

Students will have the opportunity to learn and apply concepts of measurement and evaluation in human performance, sport, and leisure studies.

HPS 3500-3 Methods of Teaching Human Performance and Sports for Children (3 + 0)

Prerequisite: junior standing

Methods of teaching (traditional, exploratory, combined), techniques of class control and management, program planning, and organization will be covered in this course. Also included will be professional responsibilities in the total human performance and sports program.

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 3820-3 Mechanisms of Athletic Injury (3 + 0)

Prerequisites: HPS 2780, HPS 3300, HPS 3340

Corequisite: HPS 3340

This course discusses the mechanical and physiological basis of athletic injury—its cause, pathology, and treatment. Emphasizes those parameters most important in understanding common pathological conditions in athletic injury, as well as the knowledge pertinent to the planning of treatment programs.

HPS 3840-3 Evaluation Procedures in Athletic Training (2 + 2)

Prerequisite: HPS 3820

This course familiarizes the athletic training student with the fundamental injury evaluation process, with special attention toward specific injury recognition. Techniques involved in proper palpation, range of motion testing, special functional test, neurological, and circulatory assessment will be covered.

HPS 3860-3 Therapeutic Modalities in Sports Medicine (2 + 2)

Prerequisite: HPS 3820

This course will familiarize the athletic training student with the fundamental aspects and components necessary in the application of various therapeutic modalities employed in sports medicine.

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 Sports (0 + 2-4-6)

Prerequisite: approval 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 Psychology of Motor Learning (3 + 0) junior standing or permission of instructor

This course studies the concepts of motor learning and the deviations that might occur in the typical student. Emphasis will be placed on the various aspects of skill acquisition, perception, and motor control.

HPS 4600-3 Organization, Administration of Human Performance and Sports Programs (3 + 0) senior standing, HPS 1600, and satisfaction of Level I and II General Studies course require-

ments

This course is designed to teach the organizational and administrative policies and procedures for conducting and administering programs in human performance. This is a capstone course and is required of HPSL teaching preparation majors (K–16, K–12, Secondary) and sport and allied fields emphasis area. (Senior Experience)

HPS 4620-3 Adaptive Human Performance and Sport Activities (2 + 2)

This course is designed to adapt human performance and sport activities to the physically and mentally impaired in school and community settings. The course offers field experiences in selected settings for HPSL 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

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. To prepare teachers, coaches, athletes and/or administrators to deal with and understand basic concepts and trends of law.

HPS 4680-2 Advanced Exercise Assessment Techniques (1 + 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 4760-3 Therapeutic Rehabilitation in Sports Medicine (2 + 2)

Prerequisite: HPS 3820

This course will familiarize the athletic training student with the fundamental aspects and components of designing and implementing basic therapeutic rehabilitation exercise programs and techniques.

HPS 4840-2 Comparative Fitness Programs (2 + 0)

Prerequisites: HSL 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, (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 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 comple-

tion 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 Human Performance (1 + 27)

Prerequisites: senior standing, major in HPSL, 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 are required to have a practical experience in their major emphasis area. Graded as Satisfactory/Unsatisfactory. (Senior Experience)

Leisure Studies Courses

LES 1870-3 Introduction to Recreation and Leisure Services (3 + 0)

This course provides an overview to the leisure services profession, including career opportunities. Philosophy, historical issues, leisure education, and the relationships among governmental, institutional, volunteer, and private agencies are discussed.

LES 2110-3 Leadership Skills and Techniques in Leisure Services (3 + 0)

Prerequisites: LES 1870 or approval of instructor

This course provides the study and appreciation of leadership techniques used in planning and implementing activities and programs for leisure service delivery systems, including field experiences and observations.

LES 2150-3 Maintenance of Leisure Service Facilities and Recreation Equipment (3 + 0)

This course examines maintenance requirements and management procedures needed for leisure service facilities and equipment. Settings discussed include recreation centers, parks, open spaces, aquatics, and commercial facilities.

LES 2210-3 Camping and Outdoor Recreation (2 + 2)

This course will review history, trends, programs, management, skills, and leadership techniques common to camp and outdoor recreation programs.

LES 2330-3 Advocacy, Leisure, and the Aging Adult (2 + 2)

This course studies the impact of advocacy and social action programs representing and providing leisure programs for the aging adult. Discussion will include issues at the local, state, and national levels and their implications to leisure programs. The course will provide an opportunity for students to become involved with local advocacy programs in the community.

LES 2350-3 Leisure Services for Special Populations (3 + 0)

This course is designed to address leisure programs for individuals who have special needs in the mental, physical, developmental, or social domains. Included in this course are characteristics of individuals with special needs.

LES 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 onsite observation and involvement.

LES 3330-3 Introduction to Therapeutic Recreation Services (2 + 2)

Prerequisite: LES 2350

This course is a study of the therapeutic recreation services provided for special populations administered by federal, state, and local health-care treatment facilities. Emphasizes agency organization, administration, and therapeutic leadership. Course includes involvement with various health-care facilities in the Denver area.

LES 3430-3 Program Development in Therapeutic Recreation (3 +0)

Prerequisite: LES 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.

LES 3530-3 Techniques in Therapeutic Recreation (2 + 2)

Prerequisite: LES 3330

This course of study will examine assessment tools, techniques, and procedures utilized in therapeutic recreation programs. Students will design individual treatment/program plans and apply various documentation and charting procedures. This course includes involvement in an agency providing therapeutic recreation services.

LES 3590-2 Adaptive Aquatic Programs (1 + 2)

Prerequisite: current American Red Cross WSI certification through outside agency or HPS 2160

This course acquaints the student with various adaptive aquatic programs and methods of teaching the mentally and/or physically disabled. The course leads to Red Cross Adaptive Aquatic certification.

LES 3830-3 Facilities and Area Design in Leisure Services (3 + 0)

Prerequisite: LES 2150

This course examines the requirements necessary for the planning and design of leisure service facilities and areas including open space, recreation centers, parks, aquatics, sports areas, and commercial facilities.

LES 3870-2 Leisure Services Internship Seminar (2 + 0)

Prerequisite: second semester junior or permission of instructor

This course prepares the LES major for an internship placement in the leisure services field and includes topics such as goal setting, agency identification, supervisor qualifications, professional certification, ethics, time management, financial issues, and agency and personal philosophy.

LES 3930-1-3 Contemporary Issues in Leisure Studies (1-3 + 0)

This is a variable titled course focusing on a variety of contemporary issues impacting the leisure service industry. This course deals with issues of professional importance to students with an emphasis in various facets of the leisure service field. This course cannot be repeated for credit under a similar title.

LES 3970-3 Practicum in Leisure Services (1 + 4)

Prerequisites: LES 1870, LES 2110, LES 2350

This practicum is a 90-hour, structured, practical experience that will provide a transition from the college class environment to the professional leisure setting for the purpose of allowing students to explore career opportunities. This experience will be under the supervision of an agency professional and MSCD faculty member.

LES 3990-1-3 Field Experience in Leisure Studies (.5-1 + 1-4)

Prerequisite: approval 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.

LES 4030-3 Issues and Trends in Therapeutic Recreation (3 + 0)

Prerequisite: LES 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.

LES 4110-3 Program Development in Leisure Services (3 + 0) Prerequisites: LES 1870, LES 2110, LES 2350, and LES 3970

This course prepares students to develop effective recreation programs in diverse settings, including urban, public, private, and volunteer agencies.

LES 4130-3 Administration of Leisure Services (3 + 0)

Prerequisite: LES 1870, LES 2110, LES 2350, and LES 3970

This course provides knowledge of the principles and practices required in leisure services agencies. Topics include personnel management, fiscal management, legal aspects, computer application, evaluations, and research.

LES 4150-3 Advanced Techniques in Therapeutic Recreation (2 + 2)

Prerequisites: LES 3530, LES 3970

This course of study will focus on intervention techniques and leadership roles and functions of therapeutic recreators. Individual and group facilitation techniques will be discussed. This course includes involvement with a clinical/community setting.

LES 4550-3 Management of Aquatic Resources (3 + 0)

Prerequisites: HPS 1660, HPS 2160

This course emphasizes the development, organization, and management of aquatic programs utilized in a variety of leisure service settings.

LES 4630-3 Leisure Service Programs for the Older Adult (3 + 0)

Prerequisite: 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.

LES 4730-3 Sociology of Athletics in American Society (3 + 0)

Prerequisites: SOC 1010 and junior standing

This course will examine and utilize basic sociological concepts to explain the relationship of sport to society. In addition, the course will investigate the impact of sports and athletics in our culture. (General Studies—Level II, Social Sciences)

LES 4810-3 Grants and Financial Aid Programs in Leisure Services (3 + 0)

Prerequisites: LES 2110, LES 2150 or permission of instructor

This course provides the student with an understanding of government and private funding sources, resources to locate funding agencies, and an opportunity to write a grant proposal based on community needs.

LES 4850-3 Advanced Administration in Leisure Services (3 + 0)

Prerequisites: LES 4130

This course provides intensive opportunities for students to develop administrative skills required in leisure service agencies and includes topics such as development of agency policies and procedures, grant writing, applied research techniques, human resource management, and risk management planning.

LES 4890-12 Internship for Leisure Studies (1 + 33)

Prerequisites: leisure studies major, senior standing, completion of major core and emphasis area courses,

a 2.75 GPA, and satisfaction of Level I and Level II General Studies course requirements

This course is designed for leisure studies majors to provide a practical experience in the leisure service industry. Evaluation of course will be assessed as "S" satisfactory or "U" unsatisfactory. (Senior Experience)

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 1060-3 Pharmacology of Drugs and Alcohol (3 + 0)

Prerequisites: BIO 1000 or permission of instructor

Corequisite: HSP drug and alcohol or domestic violence major, or permission of instructor

The class explores the impact of psychoactive substances on the human body with particular emphasis on the nervous system and immune system effects. Students will learn the pharmacological and legal classifications of addicting chemicals. The social, psychological, and environmental factors that influence substance use/abuse are discussed as important aspects of addiction. Substance abuse and its association with infectious diseases including HIV, venereal diseases, tuberculosis, and hepatitis (a six-hour unit) is studied in order to help students fully appreciate the total impact of psychoactive substances on the individual.

HSP 1110-4 Introduction to Developmental Disabilities (4 + 0)

Provides an introduction to the field of mental retardation with some discussion of causes, types, and treatment.

HSP 1470-3 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 non-majors. It is not counted as a required elective for drug/alcohol emphasis students.

HSP 2010-4 Principles of Nonprofit Organization Administration (4 + 0)

This course will provide the student with a general awareness of the basic principles and concerns associated with the administration of nonprofit organizations.

HSP 2020-4 Small Group Dynamics: Theory and Experience (4 + 0)

Prerequisite: 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 1010

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 Function, Dysfunction, and Therapy (4 + 0)

Prerequisite: HSP 2030 or permission of instructor

Provides a brief review of family functions and the roles of family members, both traditional and changing. Describes theoretical and therapeutic systems in which family theory serves as a guide for the therapist in doing family psychotherapy.

HSP 2050-8 Human Services Practicum I (2 + 12)

Prerequisites: HSP 1010, HSP 1040, HSP 2020, HSP 2030, and HSP 2040, or permission of instructor Seminar and a 300-hour practicum in a human services institution. Experience and training in the fundamentals of evaluation, treatment, dynamics, relationships, and effective functioning. The student may register twice for this course in an alternate area of emphasis.

HSP 2060-8 Human Services Practicum II (2 + 12)

Prerequisites: HSP 1010, HSP 1040, HSP 2020, HSP 2030, and HSP 2040, or permission of instructor Seminar and 300-hour advanced practicum in a human services setting. Experience and training in the fundamentals of evaluation, treatment, dynamic therapeutic relationships, and effective functioning. The student may register twice for this course in an alternate area of emphasis.

HSP 2110-3 Individual Programming for the Developmentally Disabled (3 + 0)

This course provides students with a basic knowledge for design, implementation, and evaluation of programs for the developmentally disabled person. Provides information about the technologies available, assessment models, and components of successful educational and vocational environments.

HSP 2480-6 Addictions Practicum I (0 + 12)
Prerequisites: HSP 2030, HSP 2040, and HSP 3470

This internship experience at a cooperating alcohol counseling/treatment center provides the opportunity for trainees to gain meaningful work experience in treatment techniques, and learn how to apply knowledge acquired in previous coursework.

HSP 2490-6 Addictions Practicum II (0 + 12)

Prerequisite: HSP 2480

This internship experience at a cooperating drug counseling/treatment center provides the opportunity for trainees to gain meaningful work techniques, and learn how to apply knowledge acquired in previous coursework.

HSP 3110-4 Human Services for Handicapped Persons (4 + 0)

Prerequisite: HSP 2050 or permission of instructor

Provides an overview of causes and treatment for the physically handicapped, mentally retarded, emotionally disturbed, and other handicapped children and adults.

HSP 3210-4 Organizational Stability of Nonprofits (4 + 0)

Prerequisite: HSP 2010 or permission of instructor

This course will provide an examination of the external and internal forces that affect the functioning of nonprofit organizations. Special emphasis will be placed on the interaction between sociopolitical climate and funding sources, the legislative process and lobbying opportunities, and the impact of the systems, personalities, organizational structures, and programs operating within a nonprofit organization. Students will learn to apply the principles of strategic planning to public and nonprofit organizations.

HSP 3220-2 Conflict Resolution and Decision-Making (2 + 0)

This course will focus on the nature, analysis, and management of conflict and the use of decision-making models and negotiating skills in leadership situations.

HSP 3230-4 High Risk and Offender Youth (4 + 0)

Prerequisite: 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 3330-2 Ethical and Professional Issues in Human Services (2 + 0)

Prerequisite: HSP 2050 or HSP 2480

This course surveys ethical, legal, and professional issues facing human services professionals. The course is designed to teach a process of ethical decision-making and to increase awareness of the complexities in the courseling field: codes of ethics, legal considerations, standards of preparation, certification, licensing, and role identity of counselors. A critical-thinking component is included in the course.

HSP 3410-3 Alcoholism Family Counseling Advanced Topics (3 + 0)

Prerequisite: HSP 2040 or permission of the instructor

Investigation of diverse issues related to working with substance-abusing couples and families. Topics include the adolescent abuser and family, marital therapy, sex therapy, multiple couple and family treatment, work with the child-centered and single-parent family. Emphasis is on the practical application of outlooks and methods covered.

HSP 3430-3 Addictive Behaviors (3 + 0)

Prerequisites: HSP 1040 and HSP 2030

This course provides a detailed study of specific addictive behavior patterns and usual treatment methods. The focus is to help students clarify a theory of addiction, gain knowledge about addictive behaviors and learn current treatment practices utilized in the field. Students will be expected to visit treatment programs.

HSP 3440-3 Addictions Research Seminar (3 + 0)

Prerequisites: HSP 3430, MTH 1210 or equivalent

Designed for human services majors in drugs, alcohol, and addictive behaviors to research their specific area of interest in addictions. In addition, students will learn basic concepts and skills in surveying literature, and in synthesizing and critically analyzing research articles and methodology used in addictions research.

HSP 3450-4 Crises Intervention and Legal Issues (4 + 0)

Prerequisites: HSP 2030 and HSP 2040

Focuses on crises intervention and legal aspects applicable to the field of human services. The coursework is designed to give the student an opportunity for competencies development and increased understanding of emergency, legal, and therapeutic interventions.

HSP 3470-4 Counseling the Substance Abuser (4 + 0)

Prerequisite: HSP 2030

A course specifically oriented to counseling the substance abuser. Coursework is designed to give the trainee experience in applying fundamentals of individual counseling techniques and client records management.

HSP 3490-4 Multicultural Issues in Human Services (4 + 0)

Prerequisites: HSP 2030 and satisfaction of Level I General Studies course requirements

The course facilitates cultural diversity understanding in the delivery of human services, especially psychotherapy to people of African, Asian, Hispanic, Native American, white ethnic, and WASP heritages. Research involving the therapist and client interaction during individual, family, and group psychotherapy is emphasized by examining the effects of racism, sexism, and socio-economic status in the assessment, communication, diagnosis, and treatment process. (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 is explored, along with treatment issues and approaches for each person.

HSP 3580-1 The Resistive Client (1 + 0)

Prerequisites: HSP 2480 and/or junior standing, or permission of instructor

This course provides the student with a clear understanding of resistance in the counseling process both from the perspective of the client and of the counselor. Various models are used in overcoming resistance and are presented and demonstrated. This course meets the resistive client mandatory training requirement for the CAC II Level 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 3610-4 Financial Accountability and Organizational Control in Nonprofit Organizations (4 + 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 record-keeping systems and statements, budgeting, tax compliance, cost control, MIG systems, and program accountability and evaluation.

HSP 3650-1 Treatment of Adult Survivors (1 + 0)

Prerequisites: HSP 2030 and HSP 2040

Abuse is defined from different viewpoints, including emotional, sexual, and physical. The process of healing through therapy and support systems for survivors of adult and childhood abuse are studied and therapeutic methodology is explored.

HSP 3750-4 Holistic Health and High-Level Wellness (4 + 0)

Prerequisite: PSY 2750 or permission of instructor

This course will give students the opportunity to explore and evaluate high-level wellness and nontraditional alternatives to the Western medical model. It will emphasize the interrelatedness of stress, diet, exercise, environmental sensitivity, and self-responsibility.

Fundraising and Proposal Writing for Nonprofit Organizations (4 + 0)

Prerequisites: HSP 2010 or permission of instructor

This course will provide an examination of the various methods of obtaining funds for nonprofit organizations so they can function effectively. Special emphasis will be placed on writing successful proposals, including budgets and budget narratives.

Understanding the World of the Disabled Adult (2 + 0) HSP 1110, HSP 3110 or permission of instructor HSP 4110-2

Prerequisites:

The course is designed to provide the student with an understanding and awareness of the disabled adult through lectures, sensitivity training, and field experiences.

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.

HSP 4280-1 Gender Issues in Treatment and Recovery (1 + 0)

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.

Human Resource Development in Nonprofit Organizations (4 + 0)

HSP 2010 or permission of instructor

This course will provide students with a comprehensive study of the use of human resources in a variety of roles within nonprofit organizations including recruitment, training and development of volunteers, board members, and staff.

HSP 4320-4 Psychopathology and the Mental Health Clinician (4 + 0)

two of the following: HSP 2050, HSP 2060, HSP 2480, HSP 2490, or permission of instructor Prerequisites: Provides critical analyses of current definitions of psychopathology and of the prevailing models of mental disturbance. Explores the strengths and problems of current labeling systems and the societal implication of mental health typologies.

Advanced Intervention Techniques (4 + 0)

two of the following: HSP 2050, HSP 2060, HSP 2480, HSP 2490, or permission of instructor Prerequisites: An advanced therapeutics course designed for the human services specialist utilizing a symptomatic/multimodality approach.

HSP 4490-1-4 Contemporary Issues in Human Services: Variable Topics (1-4 + 0)

junior standing and/or permission of instructor

A variable titled course focusing upon the synthesis of the concepts and skills of the human services professional. Designed to provide the human services professional with an educational forum in which to integrate the theoretical base of the helping services and applied human services practice. May be repeated under different titles.

HSP 4500-1 Legal Liabilities in the Helping Professions (1 + 0)

Prerequisites: HSP 1010, HSP 2030 and junior/senior standing

Laws that relate to the helping professions and their implications for human service professionals are discussed. Students will learn how to address and work with laws relating to confidentiality, client records and legal documents kept on each client, ethical and professional standards, subpoenas, legal actions, search warrants, and preparation for court testimony.

HSP 4540-2

(CJC 405B) Youth, Drugs and Gangs (2 + 0)

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.

HSP 4650-4 Group Facilitation and Group Counseling (4 + 0)

Prerequisite: HSP 2020 or permission of instructor

Comprehensive experience in facilitating small groups to develop leadership skills and learn techniques of group psychotherapy.

HSP 4680-4 Supervisory Techniques for Health Care (4 + 0)

Prerequisites: two of the following: HSP 2050, HSP 2060, HSP 2480, HSP 2490, or permission of instructor Presentation of basic principles and methods involved in the supervisory process. Supervision is presented as a highly individualized and subjective function involving conscious aims as well as unconscious values, attitudes, and strivings.

HSP 4790-12 Professional Internship (1 + 33)

Prerequisites: HSP major with senior standing and/or approval of department chair and satisfaction of all

Level I and Level II General Studies course requirements

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)

Industrial and Technical Studies

ITS 1010-4 Introduction to Woodworking (2 + 4)

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.

ITS 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.

ITS 1130-3 Introduction to Plastics (1 + 4)

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.

ITS 1200-2 Introduction to General Metals: Cold Metals (1 + 2)

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.

ITS 1220-2 Introduction to General Metals: Hot Metals (1 + 2)

A combination lecture/laboratory course covering foundry, forging, heat treating, and welding processes. Includes pattern-making, coremaking, cutting, forming, and finishing.

ITS 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.

ITS 1470-3 Perspective Drawing (1 + 4)

Prerequisite: ITS 1430

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.

ITS 1500-2 Introduction to Graphic Arts I (1 + 2)

An introduction to the graphic arts industry. Experiences include layout and design, composition for letterpress, and silk screen.

ITS 1510-2 Introduction to Graphic Arts II (1 + 2)

An introduction to the graphic arts industry. Experiences include layout and design, composition, process camera, and darkroom procedures for offset lithography.

Introduction to Power (1 + 4)

This course deals with the theory, application, transmission, and control of hydraulic, pneumatic, and mechanical power systems. Attention also is given to the study of the theory and operation of the internal combustion engine.

ITS 1710-2 Consumer Electricity and Electronics: Communication Systems (1 + 2)

Prerequisite: PHY 1000

A lecture/laboratory course covering electrical and electronic theory and its practical application pertaining to telephone, electronic, and light transmission and receiver systems.

ITS 1720-2 Consumer Electricity and Electronics: Control Systems (1 + 2)

Prerequisite:

A lecture/laboratory course covering electrical and electronic theory and its practical application pertaining to numerical and electronic control devices used in industrial production.

ITS 1750-2 Consumer Electricity and Electronics: Residential Systems (1 + 2)

PHY 1000 Prerequisite:

This is a lecture/laboratory course covering an introduction to electrical/electronic theory and its practical application in electronic circuits and in residential distribution control, alarm, and information systems.

Art Metal, Silversmith, and Lapidary (1 + 2)

Covers the processes of fabrication in gem cutting and mounting, hand wrought, sand casting and investment casting of metals. Also includes metal forming, tooling, spinning, etching, enameling, and powdered metallurgy. Student may specialize in one or more areas.

ITS 2450-3 Beginning Industrial Design (1 + 4)

Prerequisites: ART 1110, ART 1210, ITS 1430, ITS 1470

In both a laboratory and studio environment, fundamental design principles will be applied to a variety of threedimensional form, 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.

ITS 2550-3 Introduction to Photography (1 + 4)

A first course in photography that contains the essential information to take and make good black and white pictures. Color photography will also be discussed.

ITS 2690-2 Alternate Energy & 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.

ITS 2810-3 Technology, Society, and You (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics requirement and either ENG 101 or the Level I Communication 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)

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.

ITS 3100-4 Advanced Plastics (2 + 4)

ITS 1130 Prerequisite:

An in-depth study, lecture and lab, of the materials, processes, and procedures used in the plastics industries.

ITS 3210-4 Advanced Metalworking (2 + 4)

Prerequisites: ITS 1200 and ITS 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.

ITS 3410-3 Computer Aided Drafting for Industry (1 + 2)

Prerequisite: ITS 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.

ITS 3450-3 Intermediate Industrial Design (1 + 4)

Prerequisite: ITS 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.

ITS 3480-3 Industrial Design Model Making (1 + 4)

Prerequisite: ITS 3450

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 communicate product design concepts.

ITS 3500-4 Advanced Graphic Arts (2 + 4)

Prerequisites: ITS 1500 and ITS 1510

An in-depth study, lecture and lab, of the methods and processes that produce a number of copies of pictorial, decorative, or typographic arrangements on paper or other surfaces, by offset lithography and screen processes.

ITS 3660-3 Computer Aided Industrial Design (1 + 4)

Prerequisites: ITS 2450 and ITS 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 rendering of design concepts.

ITS 3700-3 Industrial Safety (3 + 0)

Prerequisite: completion of trade or technical associate degree program or permission of instructor Industrial safety related to industry and school shops. Includes history, accident facts, liability, psychology, worker performance, industrial methods of operation, and sources of information.

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, future trends.

ITS 3720-3 Characteristics of Industrial and Technical Personnel Selection, Supervision and Evaluation (3 + 0)

Prerequisite: completion of trade or technical associate degree program or permission of instructor Deals with the unique characteristics that exist in trade or technical operations including the selection, supervision, and evaluation of personnel in industry. A practical study of the career mobility opportunities and future trends in personnel management in industry.

ITS 3800-4 Industrial Safety and Production (2 + 4)

Prerequisites: ITS 1010, ITS 1130, ITS 1200, and ITS 1220

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.

ITS 3810-2 Industrial Arts for the Elementary School (1 + 2)

Includes the development of some basic tool skills that classroom teachers may find useful in using the industrial arts to enrich other disciplines. The use of career education as an awareness of occupations is included.

ITS 4030-4 Advanced Wood Processes (2 + 4)

Prerequisite: ITS 1010 or permission of instructor

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.

ITS 4090-3 Advanced Modelmaking Fabrication Techniques (1 + 4)

Prerequisite: ITS 3480

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.

ITS 4200-4 Welding Technology (2 + 4)

Prerequisite: ITS 1220 or permission of instructor

A combination lecture/laboratory course that includes practical exercises and weldment testing involving the following processes: shielded metal arc, MIG, TIG, oxyacetylene welding, brazing and flame cutting.

ITS 4410-3 Computer Aided Drafting for Industry II (1 + 4)

Prerequisites: ITS 1430 and ITS 3410

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.

ITS 4450-3 Advanced Industrial Design I (1 + 4)

Prerequisite: ITS 3450

This course is a continuation of ITS 3450, extending industrial designing to corporate image, product packaging, and display. Special emphasis is given to human factors in product design.

ITS 4460-3 Advanced Industrial Design II (1 + 4)

Prerequisite: ITS 4450

This course is the conclusion of the industrial design courses sequence in which the student develops a professional design portfolio appropriate for job interviewing.

ITS 4540-3 Advanced Design Concept Visualization (1 + 4)

Prerequisite: ITS 3450

In a studio environment, students will gain experience in advanced idea generation and visualization for industrial design. Strong emphasis will be on skill development, as well as creative ways of employing new techniques to a variety of applications.

ITS 4710-8 Trade and Technical Practicum (1 + 14)

Prerequisite: completion of 12 credits beyond an associate degree in a trade or technical program An advanced-level, supervised field experience in an area related to the technical and industrial administration major. The field experience is conducted by an affiliated organization in collaboration with the industrial and technical studies faculty and the student.

ITS 4730-3 Assessment of Trade and Technical Enterprises (3 + 0)

Prerequisite: completion of trade or technical associate degree program or permission of instructor A study of the methods of assessing specific trade and technical industries and competitive products; techniques of market sampling, product development and promotion; patent law and patent search.

ITS 4740-2 Organizational Structures for Technical Enterprises (2 + 0)

Prerequisite: completion of trade or technical associate degree program or permission of instructor An examination of organizational structures such as sole proprietorship, partnerships, corporations, and franchises. Attention is given to liability and tax implications.

ITS 4810-3 Curriculum and Methods of Teaching Industrial Arts (2 + 3)

Prerequisite: ITS 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.

ITS 4830-3 Organization and Administration of Industrial Arts (3 + 0)

Prerequisite: ITS 3800

Three areas of emphasis are included: (1) Planning and organizing multiple activity facilities and programs, (2) the selection and maintenance of equipment, and (3) the teacher's role in the organization and administration of an effective industrial arts program, including individual courses. Working with advisory committees as a means of program development will be emphasized.

ITS 4840-2 Emerging Technologies (2 + 0)

Prerequisites: senior standing and ITS 2810

This course is designed to study the creation and utilization of adaptive means, including tools, machines, materials, techniques, and systems. Tools and technical systems have enabled humankind to survive and have had an effect on the physical world. This course will discover and explore the very latest technologies that affect our lives.

ITS 4860-2 Research in Industrial Technology (2 + 0)

Prerequisites: senior standing; ITS majors/minors and TIA majors only

This course provides in-depth research, laboratory experimentation, and/or development of a student-selected and faculty-approved topic in one technical system. The areas of research are: communications, manufacturing, and transportation/power. The course allows the student the opportunity to further develop problem-solving abilities. At the same time, the process enhances the student's knowledge and skills in a technical concentration.

ITS 4870-1-5 Special Studies in Industrial and Technical Studies (0 + 2-10)

permission of instructor Prerequisite:

A study and investigation of a selected topic in the field of industrial and technical studies. Student may repeat this course in alternate areas of emphasis.

ITS 4960-4 Professional Industrial Internship (1 + 9)

Prerequisites: satisfaction of all Level I and Level II General Studies course requirements, senior standing, and/or completion of 12 credits beyond associate's degree in a trade or technical program.

Industrial Design Majors.

The industrial internship is the culmination of training for the bachelor's degree in technical and industrial administration, industrial design, or the non-teaching emphasis of industrial technology. 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)

Intercultural Studies

Introduction to Asian-American Studies (3 + 0)

This course focuses on the history of Asians in America, their social and psychological adjustment, their involvement in American economic and political systems. The uniqueness of Asian-American cultures will also be examined.

ICS 2100-3

(AAS 2100, CHS 2100, NAS 2100, WMS 2100) Women of Color (3 + 0)

minimum performance standard scores on the reading and writing preassessment tests; one Prerequisite: of the following: AAS 1010, CHS 1000, ICS 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, class, and ethnicity 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; religion; and politics. (General Studies-Level II, Social Sciences; Multicultural)

Japanese

JPS 1010-5 Elementary Japanese I (5 + 0)

This basic course in Japanese emphasizes pronunciation, speaking, and understanding, supplemented by grammar, reading, and writing.

JPS 1020-5 Elementary Japanese II (5 + 0)

JPS 1010 or equivalent Prerequisite:

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)

Prerequisites: minimum performance standard scores on the reading, writing, and mathematics preassessment 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)

JRN 1100-3 Beginning Reporting and News Writing (2 + 2)

Prerequisites: ENG 1010 or permission of instructor

This course provides concentration in a lecture and laboratory setting on the development of the basic skills of reporting and news writing, with stress on accuracy, completeness, clarity, speed, and fairness.

JRN 1200-3 Beginning News Editing (2 + 2)

Prerequisites: ENG 1010 or permission of instructor

This course is an introduction to and intensive practice in the techniques of copy editing and headline and cutline writing. Laboratory practice is provided.

JRN 2100-3 Intermediate Reporting and News Writing (2 + 2)

Prerequisites: JRN 1100 or permission of instructor

This course allows students to refine the news gathering, interviewing and writing techniques that were learned in Beginning Reporting and Newswriting 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 2200-3 Intermediate News Editing (2 + 2)

Prerequisites: JRN 1200 or permission of instructor

This course provides advanced training in complex problems of copy editing, headline and caption writing, and news judgment, with an introduction to page design and photo editing. Included is laboratory time to practice these skills.

JRN 2700-3 Fundamentals of Public Relations (3 + 0)

Prerequisites: JRN 2100 or permission of instructor

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 or permission of instructor

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)

Prerequisites: JRN 2100 or permission of instructor

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 3400-3 Feature Article Writing for Newspapers (3 + 0)

Prerequisites: JRN 2100 or permission of instructor

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 (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 3550-3 Print Media Advertising Sales (2 + 2)

Prerequisites: ENG 1010, JRN 1010, MKT 3000, MKT 3110 or permission of instructor

Students will learn print media advertising sales theory related to analysis construction, placement, and effects. Practical experience will include work as a sales agent for a publication.

JRN 3600-3

(ART 3290) Photojournalism I (0 + 6)

Prerequisites: JRN 1100, ART 2200 or permission of instructor

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.

JRN 3700-3 Public Relations Writing (3 + 0)

Prerequisites: JRN 2700 or permission of instructor

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, public service announcements, newsletters, and other communications materials.

JRN 4100-3 Advanced Reporting (3 + 0)

Prerequisites: JRN 1200, JRN 2100 or permission of instructor

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 4150-6 The Capitol Reporter: Writing/Reporting (0 + 12)

Prerequisites: JRN 2100 or permission of instructor

Students under the direction of professional editors report on the state legislature, covering committee meetings and floor action in the Senate and House, interviewing senators, representatives, lobbyists, and others to create several stories a week.

JRN 4160-3 The Capitol Reporter: Editing/Design (0+6) Prerequisites: JRN 2100, JRN 3600 or permission of instructor

Students under the direction of professional editors help edit and lay out the weekly Capitol Reporter internship newspaper on QuarkXpress computer page design program. Photojournalism, computer graphics, and political cartooning skills may also be used in this course.

JRN 4200-3 Principles of Newspaper and Magazine Design (2 + 2)

Prerequisites: JRN 1100, JRN 2200 or permission of instructor

This is an advanced course in layout and design of newspapers, magazines, newsletters, brochures, and other professional publications, including advanced problems in news judgment, photo editing and layout, use of graphics, and editing and headline writing. Students will spend laboratory time designing pages.

JRN 4400-3 Feature Article Writing for Magazines (3 + 0)

Prerequisites: JRN 3400 or permission of instructor

This course includes intensive study in and application of the techniques and marketing requirements for producing and selling feature articles to magazines.

JRN 4500-3 Ethical and Legal Issues in Journalism (3 + 0)

Prerequisites: JRN 2100 or permission of instructor, satisfaction of all Level I and Level II General Stud-

ies course requirements, and senior standing.

This course is an intensive study into ethical dilemmas and constitutional and legal conflicts in the news media. (Senior Experience)

JRN 4600-3

(ART 4290) Photojournalism II (0 + 6)

Prerequisites: JRN 3600 or permission of instructor

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.

JRN 4700-3 Public Relations Strategic Planning (3 + 0)

Prerequisites: 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.

Management

MGT 2210-3 Legal Environment of Business I (3 + 0)

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. Statutes, regulations, and related government agencies that regulate employment, securities, trade, and workplace decisions are analyzed, as well as the law of agency, contracts, organizations, and torts. Ethical and international aspects of law are treated where appropriate.

MGT 2500-3 Small Business Management (3 + 0)

Prerequisite: for non-business majors and business minors only

This course covers the principles of small business management and is designed for non-business majors only. Areas addressed include the positives and negatives of starting a small business, and particularly profiling the target customer, the competition, promotion, location, accounting, legal concerns, franchising, and planning.

MGT 3000-3 Organizational Management (3 + 0)

Prerequisites: junior standing or permission of instructor

This course examines applications of managerial functions and processes as applied to business and other organizations. Human and organizational behavior are discussed within the organizational environment; production techniques and systems in manufacturing and service, which are relevant to organizational management are covered. Ethical concepts and international implications are interwoven throughout.

MGT 3020-3 Fundamentals of Entrepreneurship (3 + 0)

Prerequisite: MGT 3000

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 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)

Prerequisites: 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: junior standing or permission of instructor

This is an overview course to enhance understanding of the international environment faced by businesses. The course is designed to assist students in becoming aware of the variety of international aspects and current events influencing management in today's global environment.

MGT 4000-3 Management Decision Analysis (3 + 0)

Prerequisite: MGT 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 organization 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)

Prerequisites: 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)

Prerequisites: MGT 3020

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, work force, and capacity planning. Emphasis is on financial viability and business plan packaging to secure financial seed money.

MGT 4530-3 Organizational Behavior (3 + 0)

Prerequisites: MGT 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 efficiency 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)

Prerequisites: MGT 3000

This course provides the student with an understanding of the development of labor law and its application to the management of employer/employee relations. Cases and illustrations are used to demonstrate collective bargaining and methods of securing industrial peace.

MGT 4620-3 Appraisal and Compensation (3 + 0)

Prerequisite: MGT 3000

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)

Prerequisites: MGT 3000

This course focuses on the design, implementation, and uses of training and development as a necessary part of increasing the value of employee and manager skills. Rapid organizational change precipitated by global competition, multicultural and multinational workers, and technology implementation require organizations to develop the human potential and careers of their employees at all levels.

MGT 4650-3 Managing Productivity (3 + 0)

Prerequisites: 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)

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 market-place. (Multicultural; Senior Experience)

MGT 4950-3 Strategic Management (3 + 0)

Prerequisites: completion of all business core courses and senior standing

This course presents the concepts and techniques of strategic management that allow the management of organizations of varying sizes to prosper in a competitive environment. Students are given the opportunity to apply both strategic management's analytical tools and knowledge gained from their business core courses to the domestic and global problems of organizations. (Senior Experience)

Marketing

MKT 2040-3 Managerial Communications (3 + 0)

Prerequisites: ENG 1020 and SPE 1010

The various forms of managerial communications within a business environment are studied. Emphasis is placed on writing, listening, and speaking and on nonverbal and interpersonal communications with both internal and external audiences of a business. Students will apply the principles learned to both oral and written presentations. This course may not be used to meet requirements within the marketing major. (General Studies—Level II, Social Sciences)

MKT 3000-3 Principles of Marketing (3 + 0)

Prerequisite: ECO 2020 and junior standing

This course is a comprehensive examination of the theory and practice of modern marketing. Of primary interest are the principles, concepts, and methods used to facilitate the exchange of goods and services among manufacturers, resellers, and consumers. Students will be exposed to the basic decision areas of research, consumer behavior, product, price, distribution, and promotion. Some attention is also given to marketing in international environments.

MKT 3010-3 Marketing Research (3 + 0)

Prerequisites: MKT 3000 and CMS 3300 (or equivalent statistics course) and junior 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 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 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 and discusses the targeting of advertising, types of media, media planning and buying, creative planning, and the basic creative formats for each medium. Evaluation of advertising and producing efficient ads are discussed.

MKT 3120-3 Promotional Strategy (3 + 0)

Prerequisites: MKT 3000, MKT 3110, and junior standing

Following the principles of Advertising Management, MKT 3110, this course provides an in-depth understanding and analysis of promotional strategies and tactics necessary in the management of marketing communications. Students design and execute actual advertising, sales promotion, and publicity plans for a real business.

MKT 3140-3 Direct Marketing Management (3 + 0)

Prerequisites: MKT 3000 and junior standing

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)

Prerequisites: MKT 3000 and junior standing

This course will provide students with a comprehensive study of problems involved in managing a sales force. Areas covered include organizations, motivation, and performance evaluation. Case analysis is emphasized.

MKT 3230-3 Advanced Managerial Communications (3 + 0)

Prerequisite: MKT 2040

This course provides advanced communication training for business students on listening, writing for special situations, speaking in business settings, getting acquainted with one's own communication style, interviewing techniques, planning and conducting business meetings, and developing appropriate audiovisual materials.

MKT 3300-3 Marketing of Services (3 + 0)
Prerequisites: MKT 3000 and junior standing

This course will introduce students to the problems and issues that are unique to marketing a service. Current literature related to services marketing will be reviewed. Students will learn how to develop strategies to service firms.

MKT 3310-3 Consumer Behavior (3 + 0)
Prerequisites: MKT 3000 and junior standing

This course analyzes the underlying theories and complex variables influencing consumers and their purchase decision making processes. Marketing strategy implications of consumer behavior concepts are offered.

MKT 3410-3 Marketing Logistics (3 + 0)
Prerequisites: MKT 3000 and 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 3610-3 Business-to-Business Marketing (3 + 0)

Prerequisites: MKT 3000 and junior standing

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 3000 and junior standing

The primary objective of this course is to introduce students to the issues and 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 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)

Prerequisites: MKT 3000, MKT 3010, MKT 3110, MKT 3310, and senior standing or permission of

instructor

This is the culminating course for all marketing majors. This final course 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. A spreadsheet package will be used.

Mathematical Sciences

Computer Science courses are listed under the prefix CSI and are offered through the Department of Mathematical and Computer Sciences.

MTH 1080-3 Mathematical Modes of Thought (3 + 0)

Prerequisite: one year of high school algebra or the equivalent and an appropriate score on the mathemat-

ics 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)

MTH 1110-4 College Algebra (4 + 0)

Prerequisite: an intermediate algebra course or one and one-half years of secondary school algebra or

equivalent and appropriate score on the mathematics preassessment placement test

The topics covered include equations and inequalities, functions and graphs, exponents and logarithms, and sequences and the binomial theorem. Basic algebraic skills are essential as a prerequisite to this course. (General Studies—Level I, Mathematics)

MTH 1120-3 College Trigonometry (3 + 0)

Prerequisite: MTH 1110 or equivalent

The topics covered include trigonometric functions, equations and identities, solution of triangles, and complex numbers.

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, 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)

MTH 1230-2 Introduction to Probability and Descriptive Statistics (2 + 0)

Prerequisite: one year of high school algebra or equivalent

This course introduces the principles and techniques of probability, descriptive statistics, and probability distributions. Students will be able to learn the subjects of estimation and inferential statistics in their chosen study. 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)

Prerequisite: one and one-half years of high school algebra or equivalent and an appropriate score on the

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. (General Studies—Level I, Mathematics)

MTH 1320-3 Calculus for the Management and Social Sciences (3 + 0)

Prerequisite: MTH 1310 or MTH 1110 or MTH 1400

This course is an introduction to calculus emphasizing applications in business and social sciences. Topics include differentiation, partial differentiation, indefinite and definite integration.

MTH 1400-4 Pre-Calculus Mathematics (4 + 0)

Prerequisites: this course is designed for students who have had some exposure to college algebra and

trigonometry and need a review of precalculus material

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.

MTH 1410-4 Calculus I (4 + 0)

Prerequisites: MTH 1110 and MTH 1120, or MTH 1400

This is a first course in calculus for science and engineering. The topics covered include derivatives of polynomials, trigonometric, exponential, and logarithmic functions, applications of the derivative, the definite integral, the fundamental theorems of calculus, and applications of integration.

MTH 1450-4

(HON 2100) Calculus and Mathematica I (4 + 0)

Prerequisites: MTH 1110 and MTH 1120, or MTH 1400, or equivalent, and enrollment in the Honors Pro-

gram or permission of the instructor This course is an introduction to calculus using the computer software Mathematica. Topics covered include derivatives of algebraic functions, trigonometric functions, and transcendental functions, applications of derivatives, the definite integral, the fundamental theorems of calculus, and applications of integration. This course may be substituted for MTH 1410 Calculus I wherever MTH 1410 is required. Credit will be given toward graduation for only one of MTH 1410, MTH 1450, or HON 2100.

MTH 1510-4 Computer Programming: FORTRAN (4 + 0)

Prerequisite: MTH 1120 or MTH 1400 or equivalent

This is a first course in computer programming for students in mathematics, science, or engineering, using the FOR-TRAN language. It includes an introduction to computer applications, program design, testing, and debugging.

MTH 1610-4 Mathematical Concepts for Teachers in Pre-secondary Schools (4 + 0)

Prerequisites: one and one-half years of high school algebra or equivalent, and an appropriate score on the

mathematics preassessment test.

This course is designed to develop a sound background in the concepts underlying the presecondary mathematics curriculum. (General Studies—Level I, Mathematics)

MTH 2140-2 Computational Matrix Algebra (2 + 0)
Prerequisite: MTH 1120 or MTH 1400 or equivalent

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. This course will not count toward graduation if MTH 3140 is also taken.

MTH 2400-4

(HON 2600) Calculus and Mathematica II (4 + 0)

Prerequisites: MTH 1450, or MTH 1410, or HON 2100, and enrollment in the Honors Program, or permis-

sion of the instructor

This course is a continuation of the study of calculus begun in Calculus and Mathematica I, using the computer software Mathematica. Topics covered include exponential growth and related differential equations, parametric equations, splines, applications and techniques of definite integration and series, and approximations. This course may be substituted for MTH 2410, Calculus II, wherever MTH 2410 is required. Credit will be given toward graduation for only one of MTH 2400, MTH 2410, or HON 2600.

MTH 2410-4 Calculus II (4 + 0)

Prerequisite: MTH 1410 or MTH 1450 or HON 2100 or permission of instructor

This is a second course in calculus. The topics covered include techniques of integration, applications of the integral, and infinite series, including Taylor's series.

MTH 2420-4 Calculus III (4 + 0)

Prerequisite: MTH 2410 or permission of instructor

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.

MTH 2450-4 Calculus and Mathematica III (4 + 0)

Prerequisites: MTH 2400, or HON 2600, or MTH 2410, and permission of instructor

This course is a continuation of the study in Calculus and Mathematica I and II, using the computer software Mathematica. Topics covered include partial derivatives, definite integrals over plane and solid regions, vectors and their applications, and Green's Theorem and its generalizations. This course may be substituted for MTH 2420, Calculus III, wherever MTH 2420 is required. Credit will be given toward graduation for only one of MTH 2420 or MTH 2450.

MTH 2530-2 Introduction to Mathematica (2 + 0)

Prerequisite: MTH 2410 or permission of instructor

This course is an introduction to the mathematical symbolic manipulation software package Mathematica and its use in solving problems 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. This course does not count toward the major or minor in mathematics.

MTH 3100-3 Introduction to Mathematical Proofs (3 + 0)

Prerequisite: MTH 2410 or permission of instructor

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, relations, and functions.

MTH 3110-3 Abstract Algebra I (3 + 0)

Prerequisite: MTH 3100 or permission of instructor

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 3140-4 Linear Algebra (4 + 0)

Prerequisite: MTH 3100 or CSI 3100, or permission of instructor

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.

MTH 3200-3 Biostatistics (3 + 0)

Prerequisite: MTH 1110 or equivalent or permission of instructor

This is a course in the application of statistics to the biological and health sciences. The topics covered include descriptive statistics, statistical inference, and methods.

MTH 3210-4 Probability and Statistics (4 + 0)

Prerequisite: MTH 2410 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, sampling, estimation, and tests of hypotheses.

MTH 3220-4 Design of Experiments (4 + 0)

Prerequisite: MTH 3210 and either MTH 2140 or MTH 3140, or permission of instructor

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, 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 toward a major in mathematics.

MTH 3250-4 Optimization Techniques I (4 + 0)
Prerequisite: MTH 2140 or permission of instructor

This is an introduction to the mathematical programming techniques of operations research. It includes linear programming, network analysis, dynamic programming and game theory.

MTH 3260-4 Optimization Techniques II (4 + 0)

Prerequisites: MTH 1410 and MTH 2140 or permission of instructor

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.

MTH 3420-4 Differential Equations (4 + 0)

Prerequisite: MTH 2420 and knowledge of Mathematica or MTH 2450 or permission of instructor. Knowledge of Mathematica can be satisfied by MTH 2530 or both first and second semester calculates.

edge of Mathematica can be satisfied by MTH 2530 or both first and second semester calculus where Mathematica is used: a MTH 1410 with Mathematica component or MTH 1450 or HON 2100, a MTH 2410 with Mathematica component or MTH 2400 or HON 2600.

This course includes a study of first, second, and higher order differential equations and systems, solving using series methods, approximations, and applications in science and engineering.

MTH 3440-4 Partial Differential Equations (4 + 0)

Prerequisite: MTH 3420 and knowledge of Mathematica, or permission of instructor; knowledge of Math-

ematica can be satisfied by MTH 2530 or MTH 2450 or both first and second semester calculus where Mathematica is used: a MTH 1410 with Mathematica component or MTH 1450 or HON 2100, a MTH 2410 with Mathematica component or MTH 2400 or HON 2600

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.

MTH 3470-3 Applied Combinatorial Mathematics (3 + 0)

Prerequisite: MTH 2420 or permission of instructor

This is a problem-solving course. Applied topics will include enumeration, graph theory, block designs, incidence relations, and difference equations.

MTH 3600-3 History of Mathematics (3 + 0)

Prerequisite: MTH 3100 or permission of instructor

This course is an introduction to the history of mathematics, including discussion of problems and the people who formulated and solved them. The course also investigates the impact of historical mathematics on present society.

MTH 3610-3 Methods of Teaching Mathematics (3 + 0)

Prerequisites: MTH 3100 or permission of instructor

Corequisites: concurrent enrollment in EDS 3210 and EDS 3220

This is a course in the methods and techniques of teaching mathematics at the secondary education level.

MTH 3650-3 Foundations of Geometry (3 + 0)
Prerequisite: MTH 3100 or permission of instructor

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)

Prerequisite: MTH 3110 or permission of instructor

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 CSI 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 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 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 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 coursework 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

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 CSI 1300, MTH 3140 or MTH 2140, MTH 2410 or MTH 2400 or HON 2600,

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: a MTH 1410 with Mathematica component or MTH 1450 or HON

2100, a MTH 2410 with Mathematica component or MTH 2400 or HON 2600

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, 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)
Prerequisite: 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 4660-3 Topology (3 + 0)

Prerequisite: MTH 3100 or permission of instructor

This course will include topological spaces, functions, mappings and homeomorphisms, continuity, compactness, and metric spaces.

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 1310-3 Principles of Quality Assurance (3 + 0)

Prerequisite: intermediate algebra or equivalent

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 2200-3 Materials of Engineering (2 + 2)

Prerequisites: CHE 1100 or CHE 1200 (can be concurrent); MTH 1110 or MTH 1400

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 2210-3 Mechanical Drawing (2 + 2)

Prerequisite: CEN 1200 or comparable training or experience

Representation of mechanical components, dimensioning, and tolerancing are worked. 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.

MET 2220-3 Computer Aided Drafting for Engineering Technology (1 + 4)

Prerequisite: MET 2210 or permission of instructor

Students will work with a computerized engineering graphics system to produce mechanical drawings. This includes learning place and edit lines, arcs, points, and polygons. The students will produce text, dimensions, inserts, sectioning, and hard copies.

MET 2310-3 **Quality Assurance: Statistical Methods (3 + 0)**

Prerequisites: MET 1310 and MTH 1210

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 decisions.

MET 2400-3 Welding Processes (2 + 2)

Prerequisites: MET 1010, MET 2200

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)

Prerequisites: MET 1010, MET 1310, MTH 1110 or MTH 1400

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 3010-3 Fluid Flow I (2 + 2)

PHY 2020 and MTH 1120 or MTH 1400 Prerequisites:

This course is an introduction to incompressible internal flow with application to hydraulics. Fluid power is treated. Analyses are performed on steady and unsteady incompressible flow. Laboratory work includes the calibration and use of equipment to measure viscosity, specific gravity, pressure drop, flow profiles, and flowrates using different hydraulic systems.

Fluid Flow II (2 + 2) MET 3010, MET 3110 MET 3020-3

Prerequisites:

Compressible internal flow is studied with application to industrial, pneumatic systems. Isentropic, isothermal, and flow of real gases are studied 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 3050-3 Heat Power (2 + 2)MTH 1410, PHY 2010 Prerequisites:

This energy conversion course combines lecture and laboratory for the manufacturing and industrial student. Emphasis is given to real processes, compression, expansion, and heat transfer, and to safety and efficiency of engines (stationary and mobile).

MET 3060-4 Statics and Dynamics (4+0)

Prerequisite: PHY 2010 MTH 2410 Corequisite:

This course studies statics, dynamics, kinematics, and kinetics of particles and rigid bodies with mechanical engineering technology applications.

MET 3070-3 Machine Design (2 + 2)

CEN 3130 and MET 2200, MET 2210 Prerequisites:

The art of designing machines to accomplish specific purposes is studied. The student is introduced to the fundamental principles required to design the separate machine elements. The economics of design are stressed along with strength and safety considerations. The lab work uses selected software, e.g., ALGOR and AutoCAD, to produce the preferred design.

MET 3080-1 Statics Laboratory (0 + 2)

Prerequisite: MET 3060 (concurrent enrollment preferred)

This laboratory course uses the computer, selected software, and experiments to supplement MET 3060 and provide data to understand the laws of statics (bodies at rest), as applied to mechanical systems.

MET 3090-1 Dynamics Laboratory (0 + 2)

Prerequisite: MET 3060 (concurrent enrollment preferred)

This laboratory course uses the computer, selected software, and experiments to supplement MET 3060 and provide data to understand the application of the laws of motion and theoretical dynamics to mechanical systems.

N/C Computer Programming (2 + 2)Prerequisites: MET 1010, MET 2210 and MTH 1120

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 programming skills.

MET 3110-3 Thermodynamics I (3 + 0)
Prerequisites: MTH 1410 and PHY 2010

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 processes are investigated.

MET 3120-2 Heat Transfer (2 + 0)

Prerequisites: PHY 2020 and MTH 1510 (or equivalent)

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 conditions. The transient study is aided by computer solutions.

MET 3140-1 Heat Transfer Laboratory (0 + 2)

Prerequisite: MET 3120 (concurrent enrollment preferred)

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 3210-4 Introduction to Computer Aided Engineering (4 + 0)
Prerequisites: MTH 1120 or MTH 1400, either MET 1000 or CEN 1100

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)

Prerequisites: MET 2200, MET 2210, MTH 1120

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)

Prerequisites: MET 1310 and MET 3000

This course focuses on statistical process control with emphasis on process capability, troubleshooting, analysis of variance, and hypothesis testing.

MET 3310-3 Thermodynamics II (2 + 2)

Prerequisites: MET 3110 and MTH 2410

This, the second course in thermodynamics, deals with the consequence of the Second Law. The Tds equations are studied as are entropy and efficiencies of some heat power engines. Standard gas and vapor cycles are investigated. The laboratory work includes various calorimetry, gravimetric and volumetric analyses, nozzles and internal combustion engine tests.

MET 3320-3 Instrumentation Laboratory (2 + 2)

Prerequisite: MET 3010

The student is introduced to standard mechanical tests and measurement techniques, e.g., installing thermocouples, strain gages, positioning static and total probes. ASME and ASTM test codes are studied, as are OSHA standards. Various physical property and system performance tests are set up, conducted, and analyzed.

MET 3330-3 Robotics for Manufacturing (2 + 2)

Prerequisites: MET 3100 and EET 2000

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 Geometric Dimensioning and Tolerancing (2 + 2)

Prerequisites: MET 1310, MET 2210

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 3510-3 Technical Supervision (3 + 0)

Prerequisite: junior, senior standing

The tasks, responsibilities, and skills of first-line supervision in industry, using case histories. Communication tools are identified for effective teamwork between engineers, technicians, and management. The course reviews the knowledge and skills needed to manage people and use resources to produce a product on time and within budget.

MET 3550-3 Rockets and Stars: A Space Trek (2 + 2)

Prerequisites: junior or senior standing and satisfaction of all Level I General Studies course requirements 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. Students 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-of-merit 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)

Prerequisites: MET 3000, MET 3330, EET 2000, satisfaction of all Level 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)

Prerequisites: MET 2210 and MET 3000

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 is stressed.

MET 4070-3 Computer Aided Design (2 + 2)

Prerequisites: MET 3070, either MET 3210 or MTH 1510, satisfaction of all 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)

Prerequisites: MET 3000, MET 3100, MTH 1510

Computer applications in configuration control, purchasing, vendor ratings, production control, inventory control, and final product acceptance documentation are treated. The SmartCAM software is used.

MET 4240-3 Cost Estimating for Manufacturing (3 + 0)

Prerequisites: MET 3000 and MTH 1510

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, PHY 2020

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 environment problems including air and thermal pollution plus radioactivity are treated.

MET 4480-3 Air Conditioning/Refrigeration (3 + 0)

Prerequisite: MET 3120

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 temperature and humidity, along with air-handling equipment and ducting, are studied.

Meteorology

MTR 1400-3 Introduction to Meteorology (3 + 0)

Prerequisite: minimum performance standard scores on reading, writing, and mathematics preassessment

placement tests

This course is an introductory course in the composition, structure and behavior of the atmosphere of the earth. Material covered includes high and low pressure systems, air masses, fronts, clouds, precipitation, stability, thunderstorms, tornadoes, and hurricanes, as well as solar radiation, the greenhouse effect, and seasons. (General Studies—Level II, Natural Science)

MTR 1420-1 Introduction to Meteorology Lab (0 + 2)

Prerequisite: successful completion of Level I mathematics requirement

Corequisites: MTR 1400

Students are introduced to the basic measurements, calculations, and analyses made in the study of meteorology. The course is designed to complement the lectures in MTR 1400. Weekly lab exercises will be performed with instruments, surface maps, upper-air maps, thermodynamic diagrams, and weather instruments.

MTR 2410-3 Meteorological Instrumentation (3 + 0)

Prerequisite: MTR 1400 and MTR 1420

This course acquaints the student with various types of meteorological instrumentation used in both operations and research field work. The theories of instrument measurement and operating principles of the more common instruments and instrument systems are discussed. These systems include ground-based, airborne, and remote sensing instruments.

MTR 2420-3 Use of Radar and Satellites in Meteorology (3 + 0)

Prerequisite: MTR 1400 and MTR 1420

This course covers the theories of the remote sensing of the atmosphere by radar and satellite technologies. The radars and satellites in current operation are examined with regard to the types of products available and the interpretation of those products.

MTR 3400-4 Synoptic Meteorology I (3 + 2)

Prerequisites: MTR 1400 and MTR 1420

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 3410-4 Synoptic Meteorology II (3 + 2)

Prerequisite: MTR 3400

This course is a continuation of MTR 3400, Synoptic Meteorology I, with emphasis on practical applications of synoptic and dynamic principles to daily weather systems. Daily weather maps, codes, thermodynamic diagrams, satellite imagery, and computer graphics of atmospheric properties, and numerical model output are all introduced in examining weather systems.

MTR 3430-3 Dynamic Meteorology I (3 + 0)

Prerequisites: MTH 1410, PHY 2311 and PHY 2321, and MTR 3410

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.

MTR 3440-3 Physical Meteorology (3 + 0)

Prerequisite: MTR 3430 and CHE 1800

This course is the second in the sequence of calculus-based, theoretical meteorology courses. Emphasis in 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.

MTR 3450-3 Dynamic Meteorology II (3 + 0)

Prerequisites: PHY 2331 and PHY 2341, MTH 2410, and MTR 3430

This course focuses on the development and study of the laws of conservation of mass, momentum, and energy as they apply to middle latitude synomptic scale systems.

MTR 3500-3 Hazardous Weather (3 + 0)

Prerequisites: MTR 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)

Prerequisite: employment in a meteorological cooperative education position

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)

Prerequisites: employment in a meteorological cooperative education position, and MTR 3720

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 3400

This is a laboratory course in which the principles of Synoptic Meteorology I and II are used in the diagnosis of current weather. Students are introduced to computer-aided weather data access, display and analysis using the McIDAS weather computers, DIFAX maps, NEXRAD weather radar and other weather products available via Internet. The principles of weather briefing and basics of weather forecasting are introduced.

MTR 4220-1 Forecasting Laboratory II (0 + 2)

Prerequisite: MTR 3410

This course is a continuation of MTR 4210, Forecasting Laboratory I, that allows students to gain further experience in weather data analysis, diagnosis, and forecasting.

MTR 4230-1 Forecasting Laboratory III (0 + 2)

Prerequisite: MTR 3400

This course is a continuation of MTR 4220, Forecasting Laboratory II, that allows students to gain further experience in weather data analysis, diagnosis, and forecasting.

MTR 4240-1 Forecasting Laboratory IV (0 + 2)

Prerequisite: MTR 3400

This course is a continuation of MTR 4230, Forecasting Laboratory III, that allows students to gain further experience in weather data analysis, diagnosis, and forecasting.

MTR 4410-3 Numerical Weather Prediction (3 + 0)

Prerequisites: MTR 3450 and MTH 1510

This course presents a mathematical and qualitative examination of quasi-geostrophic theory and its application to the numerical modeling of the atmosphere. The theory behind current primitive equation models and finite difference techniques are applied to a simple computer model of the atmosphere developed during the class.

MTR 4420-3 Industrial Meteorology (3 + 0)

Prerequisite: MTR 3450

This course evaluates the interaction between urban and industrial complexes and the atmosphere. The course emphasizes composition and behavior of industrial air pollution sources, effects of pollution, and control techniques. Also included in the course is the history of the development of industrial meteorology, the relationship between governmental meteorology and industrial meteorology, professionalism, consultant-client relationships, and forensic meteorology.

MTR 4430-3 Meteorology and Media (1 + 2)

Prerequisite: MTR 3410

The student will develop analysis and forecast products for daily briefings, newspaper reports, radio and television presentations. Included are public needs and problems associated with each type of media presentation.

MTR 4440-3 Climatology (3 + 0)

Prerequisite: MTR 3410

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.

MTR 4450-1 Consulting Meteorology (1 + 0)

Prerequisite: MTR 3410 or permission of instructor

This course provides a study of the role of the private consultant meteorologist and meteorological companies including specialized meteorological services, forensic meteorology, and consultant-client relationships.

MTR 4500-3 Mesometeorology and Forecasting (2 + 2)

Prerequisites: MTR 3410 and MTR 4210

This is an advanced course in recognizing, understanding, and forecasting mesoscale weather events (severe thunderstorms, hailstorms, tornadoes, downslope windstorms, flash floods, snowstorms, etc.) with emphasis on theory, analysis of weather data, and forecast decision making.

Modern Languages

MDL 1300-2 Languages for the Professionals (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 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 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.

Music

MUS 1000-3 Introduction to Music (3 + 0)

Prerequisites: minimum performance standard scores on the reading and writing preassessment placement tests. This course is nontechnical in nature and designed for students who are not music majors to develop competence in understanding music through guided listening. The elements and sources of music are studied, discussed and demonstrated. (General Studies—Level II, Arts and Letters)

MUS 1010-3 Fundamentals of Music Theory (3 + 0)

The study of the basic principles of musical notation and structure as they relate to scales, keys, intervals, triads, rhythm, and meter. Designed for non-music majors and music majors with insufficient experience to qualify for Music Theory I. No previous training in music is required.

MUS 1020-3 Basic Music Theory Skills (3 + 0)

Prerequisite: MUS 1010 or a passing score on the Basic Music Theory Skills Placement Examination Designed to develop music-reading and related aural skills through practice and application of fundamental sight-reading techniques and ear-training procedures and to prepare music students in skills needed for entrance into Music Theory I, MUS 1110.

MUS 1110-3 Music Theory I (3 + 0)

Prerequisite: MUS 1020, or a passing score on Music Theory I Placement Examination

Corequisite: MUS 1120

The study of the melodic, harmonic, rhythmic, textural, and formal elements of music through analysis and composition. The development of reading and hearing skills as they relate to these elements. Covers diatonic music based on the triad.

MUS 1120-1 Music Theory Lab I (0 + 2)

Prerequisite: MUS 1020 or a passing score on Music Theory I Placement Examination

Corequisite: MUS 1110

The application of reading and hearing skills to the melodic, harmonic, rhythmic, textural, and formal elements of music through singing and the use of the keyboard. Covers diatonic music based on the triad.

MUS 1130-3 Music Theory II (3 + 0)

Prerequisites: MUS 1110, MUS 1120

Corequisite: MUS 1140

Continuation of MUS 1110. Covers diatonic seventh chords and elementary chromaticism.

MUS 1140-1 Music Theory Lab II (0 + 2)

Prerequisites: MUS 1110, MUS 1120

Corequisite: MUS 1130

Continuation of MUS 1120. Covers diatonic seventh chords and elementary chromaticism.

MUS 1210-3 Music Literature I (3 + 0)

Prerequisite: MUS 1010 or permission of instructor

The study of musical forms, musical terminology, composers, and musical styles of the Middle Ages, Renaissance, and Baroque periods.

MUS 1220-3 Music Literature II (3 + 0)

Prerequisite: MUS 1210 or permission of instructor

The study of musical forms, musical terminology, composers, and musical styles of the Classical and Romantic periods and the Twentieth Century.

MUS 1400-3 Vocal Diction (3 + 0)

An in-depth study of articulation and pronunciation in the English, French, German, and Italian languages. Texts of standard choral and art song literature will be used as the basis for the course.

MUS 1600-1 Class Instruction for Non-Majors (1 + 0)

Beginning class instruction in voice, piano, guitar, the standard band and orchestra instruments, improvisation, or score reading. Designed for non-music students with no experience reading music or previous training in the area being studied. May be repeated for credit in a different area of study.

MUS 1610-1 Class Instruction I (1 + 0)

Prerequisite: MUS 1020, or a passing score on the Music Theory I Placement Examination

Class instruction in voice, piano, guitar, the standard band and orchestral instruments, improvisation, or score reading. Designed for students with little or no previous training in the area being studied. May be repeated for credit in a different area of study.

MUS 1620-1 Class Instruction II (1 + 0)

Prerequisite: MUS 1610

Continuation of MUS 1610. May be repeated for credit in a different area of study.

MUS 1710-2 Private Instruction I (1 + 0 + 0.5)

Prerequisite: performance of successful private instruction audition

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Individual instruction in voice, piano, organ, guitar, the standard band and orchestral instruments, or composition. At the end of the semester, the student must perform before a faculty jury committee. May be repeated for credit in a different area of study.

MUS 1720-2 Private Instruction II (1 + 0 + 0.5)

Prerequisite: MUS 1710

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 1710. May be repeated for credit in a different area of study.

MUS 2020-3 Jazz StylesAmerica's Music (3 + 0)

The study of the various styles of jazz and their influence upon America's musical, social, and ethnic cultures.

MUS 2110-3 Music Theory III (3 + 0)
Prerequisites: MUS 1130, MUS 1140

Corequisite: MUS 212

The study of advanced chromaticism leading to twentieth-century techniques. Music of the late nineteenth century, impressionism, and modern schools of composition. Aural recognition of harmonic materials emphasized. Stylistic composition and analysis included.

MUS 2120-1 Music Theory Lab III (0 + 2)

Prerequisites: MUS 1130, MUS 1140

Corequisite: MUS 2110

Practical theoretical skills applied to the keyboard. Training in sight-singing, rhythmic coordination, firm sense of pitch, and aural recognition of the materials introduced in MUS 1130, Music Theory II. Keyboard realization of advanced chromatic harmony and impressionism.

MUS 2130-3 Music Theory IV (3 + 0)
Prerequisites: MUS 2110, MUS 2120

Corequisite: MUS 2140

Continuation of MUS 2110. More emphasis on complete structural forms, and on contemporary music techniques.

MUS 2140-1 Music Theory Lab IV (0 + 2)

Prerequisites: MUS 2110, MUS 2120

Corequisite: MUS 2130

Continuation of MUS 2120. Contemporary music.

MUS 2610-1 Class Instruction III (1 + 0)

Prerequisite: MUS 1620

Continuation of MUS 1620. May be repeated for credit in a different area of study.

MUS 2620-1 Class Instruction IV (1 + 0)

Prerequisite: MUS 2610

Continuation of MUS 2610. May be repeated for credit in a different area of study.

MUS 2710-2 Private Instruction III (1 + 0 + 0.5)

Prerequisite: MUS 1720

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 1720. May be repeated for credit in a different area of study.

MUS 2720-2 Private Instruction IV (1 + 0 + 0.5)

Prerequisite: MUS 2710

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 2710. May be repeated for credit in a different area of study.

MUS 2730-4 Performance III (1 + 0 + 1)

Prerequisites: MUS 1720, MUS 1110, MUS 1120 and successful performance concentration audition at least one other music course, and the major ensemble in the private instruction area being

studied

Continuation of Music 1720. For students concentrating in performance only. May be repeated for credit in a different area of study.

MUS 2740-4 Performance IV (1 + 0 + 1)

Prerequisite: MUS 2730 and successful performance concentration audition

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of Music 2730. For students concentrating in performance only. May be repeated for credit in a different area of study.

MUS 2810-1 Ensemble (0 + 2.5)

Prerequisite: permission of instructor

Study of large ensemble literature and performance techniques. Preparation of materials for concert performance. Also serves as a reading lab for conducting classes. May be repeated for credit.

MUS 3000-3 Musics of America (3 + 0)

Prerequisites: MUS 1000 or MUS 1210

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 3040-3 Music and the Arts (3 + 0)

Prerequisites: MUS 1000 or equivalent or permission of instructor; and satisfaction of General Studies

Level I course requirements

This course is for music majors as well as non-music majors. Stylistic characteristics and the cultural climate of the important art epochs of the Western world are studied. Selected examples of music, painting, sculpture, architecture and literature will be examined to discover how the various arts respond to the same socio-cultural environment and how the arts relate to each other in the pattern of cultural history. (General Studies—Level II, Arts and Letters)

MUS 3050-3 Musics of the World (3 + 0)

Prerequisite: MUS 1000

This course develops the understanding of musical style, the aesthetic viewpoints, and the function music fulfills in the many cultures of the world. 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)

Prerequisites: MUS 2110, MUS 2120

Study of modal vocal polyphony (Lassus, Palestrina) of the sixteenth century, and tonal contrapuntal textures of the eighteenth century (J.S. Bach). Composition in two to four independent voices. All contrapuntal techniques studied in historical perspective, including analysis of polyphonic forms.

MUS 3150-3 Instrumental and Choral Scoring and Arranging (3 + 0)

Prerequisites: MUS 2110, MUS 2120, MUS 3460, and MUS 3410 or MUS 3420 or MUS 3430 or MUS 3450. 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 Title (3 + 0)

Prerequisite: MUS 3220 or permission of instructor

A course designed to study the history and literature of a single musical style or medium. May be repeated for credit under a different title.

MUS 3210-3 Music History I (3 + 0)

Prerequisite: MUS 2110

A survey of music history and musical style from the music of the early Christian church through the early eighteenth century.

MUS 3220-3 Music History II (3 + 0)

Prerequisite: MUS 3210

A survey of music history and musical style from mid-eighteenth century up to the present.

MUS 3230-3 Composer Series: Variable Title (3 + 0)

Prerequisite: MUS 3220 or permission of instructor

A course designed to study the work of a single composer. May be repeated for credit under a different title.

MUS 3410-2 String Techniques and Materials (2 + 0)

Practical instruction in the technique of playing and teaching string instruments. Lecture periods are devoted to the organization of string programs in the public schools.

MUS 3420-2 Guitar Techniques and Materials (2 + 0)

Practical instruction in the technique of playing and teaching the guitar.

MUS 3430-2 Woodwind Techniques and Materials (2 + 0)

Practical instruction in playing woodwind instruments with emphasis on and acquainting students with techniques and materials necessary in teaching woodwinds.

MUS 3450-2 Brass Techniques and Materials (2 + 0)

Practical beginning instruction in playing the brass instruments. Materials for beginning instrumental music in the public schools are studied.

MUS 3460-2 Percussion Techniques and Materials (2 + 0)

The study of the methods and materials for teaching beginning percussion in the public schools. Includes practical instruction on the instruments.

MUS 3480-2 Marching Band Techniques and Materials (2 + 0)

Prerequisite: sophomore standing

A study of the organization and administration of the marching band in the contemporary school setting. Particular attention is paid to the "Corps Style" program, contests in the Drum Corps International format, and the traditional precision drill and pageantry formats.

MUS 3510-2 Basic Conducting (2 + 0)

Prerequisites: MUS 1130 and MUS 1140, plus one year of MUS 2810 or MUS 3810

Detailed fundamental conducting techniques of the basic patterns. Introduction to orchestral and choral scores.

MUS 3520-3 Choral Conducting and Literature (3 + 0)

Prerequisites: MUS 3510 and a passing score on the Piano Proficiency Examination

The study of choral conducting techniques as they relate to studying, marking, reading, rehearsing, and performing the score.

MUS 3530-3 Instrumental Conducting and Literature (3 + 0)

Prerequisites: MUS 3510 and a passing score on the Piano Proficiency Examination

The study of instrumental conducting techniques as they relate to studying, marking, reading, rehearsing, and performing the score.

MUS 3650-2 Basic Techniques of Composition (2 + 0)

Prerequisite: MUS 2110 or permission of instructor

The study of the craft of musical composition, from practical, theoretical, and aesthetic points of view, through the discussion and performance of individual writing projects. May be repeated for credit.

MUS 3710-2 Private Instruction V (1 + 0 + 0.5)

Prerequisite: MUS 2720

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 2720. May be repeated for credit in a different area of study.

MUS 3720-2 Private Instruction VI (1 + 0 + 0.5)

Prerequisite: MUS 3710

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 3710. A 30-minute junior recital may be substituted for the jury requirement for MUS 3720. May be repeated for credit in a different area of study.

MUS 3730-4 Performance V (1 + 0 + 1)

Prerequisites: MUS 2740, MUS 2110, MUS 2120, MUS 3210 and successful performance concentration

audition

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 2720. For students concentrating in performance only. May be repeated for credit in a different area of study.

MUS 3740-4 Performance VI (1 + 0 + 1)

Prerequisites: MUS 3730, MUS 3220 and successful performance concentration audition

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 3730. For students concentrating in performance only. May be repeated for credit in a different area of study.

MUS 3810-1 Ensemble (0 + 2.5)

Prerequisites: junior standing and permission of instructor

Continuation of MUS 2810. Also serves as a reading lab for conducting classes. May be repeated for credit.

MUS 4110-2 Analysis of Music (2 + 0)

Prerequisites: MUS 2110 and MUS 2120 and for senior experience credit, MUS 4510, satisfaction of all

Level I and Level II General Studies course requirements, and senior standing

Advanced analytical techniques applied to various musical styles. Traditional methods of analysis along with study of twentieth-century methods of analysis of Allen Forte, Edward Cone, and Paul Hindemith. Exceptional musical procedures examined. Contemporary music literature stressed. (Senior Experience)

MUS 4300-3 Fundamentals of Music Education (3 + 0)

Prerequisite: EDU 2120

A course designed to investigate the basic principles of music education with emphasis on the aims and objectives, history, curriculum, philosophy, and career and alternative careers in the field of music education.

MUS 4310-2 Music Methods for Elementary School Classroom Teachers (2 + 0)

Prerequisite: junior standing

This course will stress activities that elementary school classroom teachers can incorporate into their curriculum to develop musical concepts in the following areas: singing, listening, creative, rhythmic, instrumental, and reading.

MUS 4330-2 Elementary School Music Methods and Materials (2 + 0)

Prerequisite: a passing score on the Piano Proficiency Examination MUS 4390; supervised field experience: ESMMM

The course is designed for the future elementary school music specialist, or for the individuals who plan to teach music in the elementary school. Emphasis is given to contemporary teaching techniques and materials.

MUS 4340-2 Secondary School Music Methods and Materials (2 + 0)

Prerequisites: MUS 3520 or MUS 3530, satisfaction of Level I and Level II General Studies course

requirements, and senior standing

Corequisites: MUS 4390; supervised field experience: SSMMM

Instruction and practice in the methods of teaching and techniques used in organizing and directing secondary school choral groups. (Senior Experience)

MUS 4390-1 Supervised Field Experience (0 + 2)

Prerequisites: satisfaction of Level I and Level II General Studies course requirements and senior standing

Corequisite: MUS 4330 or MUS 4340

This course must be taken concurrently with each of the following courses: MUS 4330 or MUS 4340. The course is designed to provide the music student with supervised experiences working with vocal and instrumental directors in area public schools. May be repeated for credit. (Senior Experience)

MUS 4410-3 Piano Pedagogy (3 + 0)

Prerequisite: MUS 324 or permission of instructor

Study of methods, literature, editions, and techniques used in teaching piano privately and in groups.

MUS 4420-3 Vocal Pedagogy (3 + 0)
Prerequisite: MUS 2710, Private Voice III

Open to juniors, seniors, and advanced special students. A series of lectures, demonstrations, and discussions of the following and similar subjects: psychological and physiological factors in singing; approach to the pupil; methods of some famous teachers; interpretation and materials.

MUS 4510-2 Advanced Conducting (2 + 0)

Prerequisites: MUS 3510, a passing score on the Piano Proficiency Examination, satisfaction of all Level I

and Level II General Studies course requirements, and senior standing

The study of advanced conducting techniques as they relate to studying, marking, reading, rehearsing, and performing the score. Instrumental and choral music is studied. (Senior Experience)

MUS 4710-2 Private Instruction VII (1 + 0 + 0.5)

Prerequisite: MUS 3720

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 3720. May be repeated for credit in a different area of study.

MUS 4720-2 Private Instruction VIII (1 + 0 + 0.5)

Prerequisite: MUS 4710

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 4710. May be repeated for credit in a different area of study.

MUS 4730-4 Performance VII (1 + 0 + 1)

Prerequisites: MUS 3740 or MUS 4720, and successful performance concentration audition

Corequisite: at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 3740. For students concentrating in performance only. May be repeated for credit in a different area of study.

MUS 4740-4 Performance VIII (1 + 0 + 1)

Prerequisite: MUS 4730; for senior experience credit, the student must also complete MUS 4790, satisfication of all Level Level II Company Studies across a senior step dispersion of all Level II company Studies across a senior step dispersion of all II and II a

faction of all Level I and Level II General Studies course requirements, and senior standing at least one other music course and the major ensemble in the private instruction area being

studied

Continuation of MUS 4730. For students concentrating in performance only. A fifty-minute senior recital may be substituted for the jury requirement for MUS 4740. May be repeated for credit. (Senior Experience)

MUS 4790-1 Senior Recital (1 + 0)

Prerequisites: MUS 4730 and for senior experience credit, the student must also complete MUS 4740, satisfaction of all Level I and Level II General Studies course requirements, and senior standing

A solo performance of not less than 50 minutes in length, required of all students concentrating in performance. Must be approved by means of a recital hearing at least three weeks prior to the performance. Graded pass-fail. (Senior Experience)

MUS 4950-3 Senior Project (3 + 0)

Prerequisites: permission of the instructor, satisfaction of all Level I and Level II General Studies course

requirements, and senior standing

A seminar course in which the student prepares a senior project in the area of music theory, history, literature, composition, performance, or pedagogy. In addition to the project that will include a portfolio, the student will prepare a personal résumé. The course will also contain a comprehensive examination that will be used for program assessment purposes. (Senior Experience)

Native American Studies

NAS 1000-3 Introduction to Native American Studies (3 + 0)

Prerequisites: 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)

NAS 1930-3

(HIS 1930) History of Indigenous/Hispanic Americans (3 + 0)

Prerequisites: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment placement tests

This course traces the development of indigenous and Indo-Hispanic civilization in North America from prehistoric origins to the present. (General Studies—Level II, Historical; Multicultural)

NAS 2100-3

(AAS 2100, CHS 2100, ICS 2100, WMS 2100) Women of Color (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment tests; one of the following: AAS 1010, CHS 1000, ICS 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, class, and ethnicity 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; religion; and politics. (General Studies—Level II, Social Sciences; Multicultural)

NAS 3200-3

(PSC 3200) Native American Politics (3 + 0)

Prerequisites: NAS 1000 or PSC 1020 or permission of instructor, and completion of all Level I General

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. (General Studies—Level II, Social Sciences; Multicultural)

Nursing

NUR 3110-3 Transitions in Nursing (3 + 0)

Prerequisite: fulfillment of admission requirements to the baccalaureate nursing program; or ANT 3480

may be taken concurrently

This course is designed to introduce the registered nurse student to baccalaureate nursing education and to facilitate the transition to the role of the baccalaureate nurse. The course focuses on expanding the nursing assessment and nursing process skills through self assessment of learning needs and critical thinking skills, exploration of the concept of health, and introduction to conceptual basis for the practice of the profession. Students will develop their philosophy of nursing that addresses environment, individual, health, nursing, and nursing practice. Aspects of professionalism such as the evolution of nursing education, the role of professional organizations, and characteristics of autonomy and accountability will be discussed. Systems theory will be presented as an organizing theoretical base for practice.

NUR 3510-1 Nursing Diagnosis (1 + 0)

This course is designed to assist the student in writing nursing diagnostic statements according to national standards. The history and future of nursing diagnosis is examined.

NUR 3550-3 Leadership (3 + 0)

Prerequisite: NUR 3110 or may be taken concurrently

This course is designed to foster development of leadership roles of the nurse in working with individuals and groups striving for high-level wellness. These leadership roles also extend to other professionals and paraprofessionals in health care settings. Consideration is given to the influence of bio-psycho-socio-cultural components in the leadership process. Emphasis is placed on the following leadership theories: role, group dynamics, decision, change, and communication.

NUR 3700-4 Assessment (4 + 0)

Prerequisite: licensed to practice registered nursing in Colorado or permission of instructor

This course is designed to assist the student in synthesizing prior technical skills and biological, psychological, sociological, and cultural knowledge with the new skills to perform a physical assessment. Emphasis is placed on assessment of level of wellness and identification of normal from abnormal states.

NUR 3850-3 Clinical Teaching Methods (3 + 0)

Prerequisite: NUR 3110 or may be taken concurrently

This course is designed to assist the student in developing knowledge and skills in clinical teaching. Emphasis is placed on the role of the nurse as a teacher. Principles of learning, content selection, strategies, teaching materials, and evaluation of teaching are considered. The relationship of perception, communication, and adaptation to teaching and learning are explored. Consideration is given to the biological, psychological, sociological, and cultural needs of clients as related to client teaching. The student will prepare a client-centered teaching module.

NUR 3880-3 Nurse Practice Acts (3+0)

Prerequisite: NUR 3110

This course is designed to analyze nurse practice acts from various states. The American Nurses Association's model of the nurse practice act will be used as a guide. The process of how changes occur in these statutory laws will be discussed.

NUR 4100-4 Critical Care Nursing (4 + 0)

Prerequisites: NUR 3110 or may take NUR 3110 concurrently if nursing entry examinations have been

completed satisfactorily. Statistics may also be taken concurrently

This course is designed for registered nurses in adult critical care settings desiring intermediate level knowledge and skills. The focus is on theoretical concepts, but clinical application will be addressed. The course is also designed as preparation for AACN certification examination. The student should have a basic knowledge in the following areas: anatomy and physiology, pathophysiology, critical, care, interpretation of electrocardiograms, cardiopulmonary resuscitation, and pharmacology.

NUR 4200-3 Research (3 + 0)

Prerequisites: NUR 3110 or may be taken concurrently, and a statistics course prior to or concurrent with

This course introduces students to the research process and terminology and acquaints them with a variety of research methodologies for scientific inquiry. Students critique current research studies for applicability of the findings to their respective discipline. Students identify researchable problems in their discipline. Students have experiential learning with steps of the research process.

NUR 4400-4 Community Health Nursing (4 + 0)

ANT 3480, HES 3600, HES 3800, HES 3820 and 13 semester hours of upper-division nurs-Prerequisites:

ing courses including NUR 3700 and NUR 3850

Corequisite: **NUR 4410**

This course focuses on family theories and public health principles in analyzing the health of individuals, families, and communities as clients. The concepts of risk and prevention in high-level wellness are examined. Principles of ecology and health planning are used to analyze the relationship between environment and human health. Students will integrate the concepts/theories learned in 3000-level nursing courses.

NUR 4410-5 Community Health Nursing: Application (1.5 + 3.5)

Corequisite: **NUR 4400**

Within a community setting, the student applies knowledge of the nursing program's conceptual framework, public health sciences, family theories, and nursing knowledge to make multidimensional assessments of the individual, family, and community level of wellness. Nursing process is stressed as a problem solving approach with the internal and external environment of these clients. Community resources are identified and utilized to promote high level wellness.

NUR 4760-2 Nursing Theories (2 + 0)

Prerequisites: NUR 3110, NUR 3510, NUR 3550, and NUR 3850

This course is designed to assist students who plan to continue their education in graduate school. The course provides an introductory examination of nursing theory development and evaluation. Three theories of nursing are analyzed and applied.

NUR 4850-5 Nursing Process: Application (1.5 + 3.5)

all 3000-level nursing courses, NUR 4200, NUR 4400, NUR 4410, satisfaction of all Level I and Level II General Studies course requirements, and senior standing Prerequisites:

A capstone course in which concepts, theoretical formulations, and processes synthesized at the third and fourth level of programs are put into operation. The student identifies a health problem of a self-selected client population and studies, in a clinical setting, a nursing intervention strategy using the nursing process to assist clients toward high-level wellness. The student spends one and one half hours per week in seminar and seven hours per week for 15 weeks in clinical study. The study may or may not have a specific clinical guide. (Senior Experience)

Parent Education

Introduction to Parent Education (3 + 0)

This course is designed to introduce the student to the field of parent educationits 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 coursework 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)

PAR 2050 and PAR 3070 Prerequisites:

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

SPECIAL NOTES ON 1000-LEVEL PHILOSOPHY COURSES

All 1000-level courses are survey type designed to provide special familiarity with philosophy as a discipline. Some of the skills within this discipline that will be developed are identifying assumptions and implications, recognizing arguments, making distinctions and developing categories, and formulating reasoned evidence. Any of these courses can be taken as a first course in philosophy.

PHI 1010-3 Introduction to Philosophy (3 + 0)

Prerequisites: 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. (General Studies—Level II, Arts and Letters)

PHI 1030-3 Ethics (3 + 0)

Prerequisites: 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)

PHI 1040-3 Introduction to Eastern Religions (3 + 0)

An introductory survey of the living traditions of some of the major faiths of the Orient, including Hinduism, Buddhism, Taoism, Confucianism, Shinto, and Zen.

PHI 1050-3 Introduction to Western Religions (3 + 0)

An introductory survey of the major religious traditions of the West with primary emphasis on the monotheistic faiths of Judaism, 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, Communication)

PHI 1440-3 Logic (3 + 0)

A general introduction to both informal and formal logic, the systems of rules for judging the validity of deductive and inductive arguments. Included are Aristotelian syllogistic deduction, modern truth-functional deduction, informal fallacies, inductive argumentation, and scientific method.

SPECIAL NOTES ON 2000-LEVEL COURSES

All 2000-level courses are concept/skill-type courses. They are designed to develop such philosophic skills as critical thinking, recognition of issues, reasoned argumentation, knowledgeable judgments, clarity in expression, and familiarity with philosophic resources. Although there are no formal prerequisites for 2000-level courses, it is recommended that a student have satisfactorily completed at least three hours of 1000-level philosophy.

PHI 2040-3 Philosophy of Religion (3 + 0)

A critical investigation of various dimensions and functions of religion (i.e., epistemological, metaphysical, ethical, esthetic, psychological, socialogical, etc.) to provide a basis for discussion of humans as religious beings and the future of religion.

SPECIAL NOTES ON 3000-LEVEL COURSES

All 3000-level courses are depth-probe type courses. They are designed to provide a rigorous, scholarly study of philosophic methods, problems, and solutions. Primary sources will be used whenever possible and the student will be expected to do maximal work on her or his own, with direction from the instructor. PHI 3410, PHI 3610, and PHI 3810 are variable title courses. The subject matter of these courses is variable in order to provide an opportunity for in-depth study in a number of specific areas. The particular subject matter to be investigated in any given semester will be specified in the title as it appears in the class schedule. It is possible to repeat any of these courses for credit provided the subject matter is not the same as in a course previously taken for credit.

PHI 3000-3 History of Greek Philosophy (3 + 0)

Prerequisites: PHI 1010 or permission of instructor; and satisfaction of Level I General Studies course

requirements

This course is a study of the Greek philosophical tradition, its characteristic methods and theories. Special attention will be paid to the Pre-Socratics, Plato, and Aristotle. Original sources will be read in translation. The dialectical progression and structure of Greek philosophical thinking will be recognized. (General Studies—Level II, Arts and Letters)

PHI 3020-3 History of Modern Philosophy (3 + 0)

Prerequisites: PHI 1010 or permission of instructor; and satisfaction of Level I General Studies course

requirements

This course is a study of modern philosophy from the Renaissance through Kant, showing the dialectical progression and fundamental problems and methods of that philosophy. Original sources will be read in translation. The systematic character of each philosophy will be stressed. (General Studies—Level II, Arts and Letters)

PHI 3120-3 Philosophy of Language (3 + 0)

Prerequisites: PHI 1010 and three additional hours in philosophy or permission of the instructor

The philosophy of language can plausibly claim to be the most fundamental area of philosophy on the ground that the subject matter of philosophy is thought itself, and this can be studied only through language, its public vehicle. This course surveys major theories in this area.

PHI 3150-3 Social and Political Philosophy (3 + 0)

Prerequisite: two courses in philosophy or permission of instructor

Political and social philosophy is the study of people in societies with particular attention to the abstract claims they have on each other in the form of rights, duties, and privileges, and their demand for justice, equality, and freedom. This study may be concerned either with the conceptual structure of political discourse and with the kinds of arguments used to propose, defend, or criticize political institutions and policies.

PHI 3180-3

(WMS 318) Feminist Philosophy (3 + 0)

Prerequisites: two philosophy courses and junior standing, or permission of the instructor

A course that examines traditional philosophical questions and positions in metaphysics, epistemology, and philosophy of science and explores how these questions and positions are rethought in twentieth-century Feminist Philosophy. Students will be expected to write a project paper in addition to other exams given in the course.

PHI 3220-3 Personal Knowledge and Professional Growth (3 + 0)

Prerequisite: upper-division standing or PHI 1010

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 self-growth, and will work on integrating theory and practice of each approach in both one's personal and professional life.

PHI 3320-3 Metaphysics (3 + 0) Prerequisite: six hours in philosophy

A comprehensive survey of metaphysics, dealing with problems of perennial and contemporary concern, such as the existence and nature of the soul, free will, God, and substance.

PHI 3330-3 Epistemology (3 + 0)

Prerequisites: two courses in philosophy or permission of instructor

The study of knowledge, concerned with what in general can be known, and how specific forms of knowledge can be obtained, including ordinary knowledge of people and things, and knowledge in such special fields as science, logic, metaphysics, religion, ethics, and aesthetics.

PHI 3350-3 Ethical Theories (3 + 0)

Prerequisite: six hours in philosophy

A comprehensive review of the central problems of normative ethics in Western philosophy and the major ethical theories of that tradition stretching from Plato in Ancient Greece to John Dewey and John Rawls in the twentieth century.

PHI 3360-3 Business Ethics (3 + 0)

Prerequisites: junior standing or permission of instructor and satisfaction of Level I General Studies 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 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 Title) (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.

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 3440-3 Symbolic Logic (3 + 0)

Prerequisite: PHI 1440

A course in the techniques and metatheory of symbolic logic. Several alternative ways of establishing the validity of arguments will be covered and the conception of a symbolic logic will be pursued through the completeness theorem.

PHI 3510-3 Phenomenology (3 + 0)

Prerequisite: nine hours of philosophy including PHI 1010 or permission of instructor

A study of two major twentieth-century phenomenologists, Husserl, and Heidegger. Different conceptions of what constitutes concrete experience will be examined.

PHI 3530-3 Philosophy of Mind (3 + 0)

Prerequisites: two courses in philosophy or permission of instructor

A study of the nature of mental phenomena, both those that occur in other animals and those that make special human nature, including consciousness, thought, reason, perception, feeling, and will.

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 psychotherapeutic theory.

PHI 3610-3 Religious Studies: (Variable Title) (3 + 0)

Prerequisites: PHI 1010 and PHI 1050 or permission of the 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.

PHI 3810-3 Major Philosophers: (Variable Title) (3 + 0)

Prerequisites: PHI 1010 plus five hours of philosophy or permission of the instructor

An in-depth study of specific philosophers such as: Plato, Aristotle, Descartes, Hume, Kant, Hegel, Marx, Engels, Nietzsche, Kierkegaard, Heidegger, Sartre, Merleau-Ponty, Dewey, Wittgenstein, and Whitehead.

SPECIAL NOTES ON 4000-LEVEL COURSES

All 4000-level courses are synthesis-type courses. They are designed to enable students to integrate their studies in philosophy and to formulate initially a position of their own. Sometimes 4000-level courses are team-taught by several members of the faculty so the student has access to their special expertise in a given field.

PHI 4050-3 Comparative Philosophies (Variable Title) (3 + 0)

Prerequisites: PHI 1010 and junior standing (nine additional hours in philosophy)

The works of two major philosophers will be analytically compared regarding basic assumptions, conclusions, arguments, and contemporary relevance. The choice of comparisons is based on student's interest and instructor's judgment.

PHI 4100-3 Senior Seminar (3 + 0)

Prerequisites: a major in philosophy or permission of instructor, satisfaction of all Level I and Level II Gen-

eral Studies course requirements and senior standing

A course centered on a key movement in Twentieth-Century Philosophy: Early Analytic Philosophy. The goal of this course is to allow the advanced student majoring in philosophy to engage in intensive study of this topic and the key philosophers who were part of this movement: Russell, Frege, and Wittgenstein. Students will be required to produce a term paper suitable for entry into graduate-level work in philosophy. (Senior Experience)

Physics

PHY 1000-4 Introduction to Physics (3 + 2)

Prerequisites: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment 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 1080-3 Physical Science for Teachers (2 + 2)

Prerequisites: minimum performance standard scores on the reading, writing, and mathematics preassess-

ment placement tests and high school algebra or equivalent

A course designed to give prospective or active teachers of science a laboratory orientation to the processes and concepts involved in interpreting the physical surroundings.

PHY 1250-6 Physics of Aviation (5 + 2)

Prerequisite: MTH 1110, or MTH 1310, or equivalent; minimum performance standard scores on the read-

ing, 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 College Physics I (4 + 0)

Prerequisites: 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. (General Studies—Level II, Natural Science)

PHY 2020-4 College Physics II (4 + 0)

Prerequisites: concurrent registration with PHY 2040 is recommended; PHY 2010 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

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)

PHY 2030-1 College Physics I Laboratory (0 + 2)

Prerequisites: concurrent registration with PHY 2010 is recommended; MTH 1120 or equivalent; and sat-

isfaction 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 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 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
Prerequisites: General Physics I (4 + 0)

Concurrent registration with PHY 2321 is recommended. MTH 1410 and satisfaction of either ENG 1010 or the Level I Communication requirement; completion of PHY 2311 and PHY

2321 with a passing grade is required to receive General Studies credit

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)

PHY 2321-1 General Physics I Laboratory (0 + 2)

Prerequisites: concurrent registration with PHY 2311 is recommended. Satisfaction of either ENG 1010 or 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)

Prerequisites: concurrent registration with PHY 2341 is recommended. MTH 2410, PHY 2311 and PHY

2321, or equivalent and satisfaction of either ENG 1010 or the Level I Communication course requirement; completion of PHY 2331 and PHY 2341 with passing grades is required to

receive General Studies credit

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)

PHY 2341-1 General Physics II Laboratory (0 + 2)

Prerequisite: concurrent registration with PHY 2331 is recommended. MTH 1410, PHY 2311 and PHY

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 2811-3 Modern Physics (3 + 0)

Prerequisites: MTH 2410 and one year of physics, or consent of instructor

An introductory course of the modern branch of physics covering the special theory of relativity, the basic phenomenology of atomic and nuclear physics, and the basic concepts of quantum mechanics.

PHY 2820-3 Classical Physics (3 + 0)

Prerequisites: MTH 2410 and one year of physics, or consent of instructor

Fundamental principles of mechanics, thermodynamics, electromagnetism, and optics with an emphasis on understanding of physics through problem-solving.

PHY 3082-3 Energy and Environment (3 + 0)

Prerequisites: PHY 1000 or PHY 2010 or equivalent

A course in the supply and usage of energy resources and the environmental problems associated with our energy usage.

PHY 3110-3 Methods of Mathematical Physics I (3 + 0)

Prerequisite: MTH 2410

First term of a one-year sequence in mathematical techniques as applied to the equations of physics. Topics covered include vector analysis, coordinate systems, matrices and determinants, infinite series and infinite products, and complex analysis.

PHY 3120-3 Methods of Mathematical Physics II (3 + 0)

Prerequisite: PHY 3110

Continuation of PHY 3110. Topics include calculus of variations, special functions, integral transforms, linear vector space, and tensor analysis.

PHY 3211-4 Analytical Mechanics (4 + 0)

Prerequisites: PHY 2820 and MTH 3420, or consent of instructor

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 3331-4 Electricity and Magnetism (4 + 0)

Prerequisites: PHY 2820 and MTH 3420, or consent of instructor

A course in electricity and magnetism at the intermediate level. Topics include Maxwell's equations, boundary value problems, electrodynamics and relativity, and electromagnetic radiation.

PHY 3411-3 Thermal Physics (3 + 0)

Prerequisite: PHY 2820 or consent of instructor

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)

PHY 3711-2 Physics Laboratory I (0 + 4)

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)

Prerequisite: PHY 2811 Continuation of PHY 3711.

PHY 3810-3 Quantum Mechanics (3 + 0)

Prerequisites: PHY 3211 and MTH 3420, or consent of instructor

A course in which both wave mechanics and matrix mechanics are developed and applied to selected problems in atomic physics.

PHY 4510-3 Optics (3 + 0)

Prerequisite: PHY 2820 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 interaction of light with matter.

PHY 4610-2 Computational Physics I (2 + 0)

Prerequisite: PHY 3120 or MTH 3440 or equivalent

This course provides an understanding of the role of the computer in modern theoretical physics by studying the simulation of physical phenomena in various fields of physics.

PHY 4620-2 Computational Physics II (0 + 4)

Prerequisite: PHY 4610 and satisfaction of all Level I and Level II General Studies course requirements

and 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)

Prerequisite: PHY 3120 or equivalent

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)

Prerequisites: PHY 3411 and PHY 3810 or consent of the instructor

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

Laboratory work at the advanced undergraduate level. Individual student projects are emphasized.

PHY 4721-2 Advanced Physics II Laboratory (0 + 4)

Prerequisites: PHY 3711; satisfaction of all Level I and Level II General Studies course requirements and

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 3810

A course in which quantum mechanical methods are applied to problems in atomic and molecular physics, such as the one-electron atom, atomic and molecular spectra, and particle scattering.

PHY 4820-3 Subatomic Physics (3 + 0)

Prerequisite: PHY 4810

An introductory treatment of the various concepts and models used to describe nuclear and high energy particle phenomena.

PHY 4920-1 Physics Senior Seminar (1 + 0)

Prerequisites: PHY 4711 or consent of instructor; satisfaction of all Level I and Level II General Studies

course requirements and senior standing

Corequisite: PHY 4620 or PHY 4721 or consent of instructor

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)

Prerequisites: minimum performance standard scores on the reading and writing preassessment placement

tests

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)

PSC 1020-3 Political Systems and Ideas (3 + 0)

Prerequisites: minimum performance standard scores on the reading and writing preassessment placement

tests

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)

PSC 2020-3 Conducting Political Analysis (3 + 0)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

This course inquires into research methods and deals with how we organize knowledge in the study of politics. It also emphasizes a multidisciplinary approach to political analysis by concentrating on philosophy of science, social science methodology, and historiography.

PSC 2030-3 Politics in the Media (3 + 0)

This course is an analysis of current political issues as portrayed in the daily and weekly press and broadcast media. It is designed to provide students with the background and perspective needed for an informed understanding of the often complex and confusing issues confronting the political system.

PSC 2200-3

(AAS 2200) Politics and Black People (3 + 0)

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 only be granted for one of these courses. (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)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

An introduction to public management as a field of study and professional practice. Topics include the political environment of public administration, organization theory, decision-making, budgetary processes, intergovernmental relations, and ethics and professionalism in public service.

PSC 3030-3 Introduction to International Relations (3 + 0)
Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

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.

PSC 3050-3 Political Theory (3 + 0)

Prerequisite: satisfaction of Level I General Studies course requirements

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)

PSC 3090-3 Current Topics in Political Science (3 + 0)

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)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

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.

PSC 3120-3 American Constitutional Law (3 + 0)

Prerequisite: PSC 1010 or permission of instructor

How the basic principles and doctrines of the Constitution have been interpreted, altered, and applied in response to the ever-changing social, economic, and political conditions in the United States.

PSC 3130-3 The American Presidency (3 + 0)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

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, constituent relations. Examines internal organization, traditions, power structure, and reform.

PSC 3140-3 The American Congress and Legislative Process (3 + 0)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

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.

PSC 3160-13 Readings in Political Science and Public Administration (13 + 0)

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 3200-3

(NAS 3200) Native American Politics (3 + 0)

Prerequisites: NAS 1000 or PSC 1020 or permission of instructor, and completion of all Level I General

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. (General Studies—Level II, Social Sciences; Multicultural)

PSC 3220-3 Public Policy (3 + 0)

Prerequisite: PSC 1010 or PSC 1020 or permission of instructor

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)

Prerequisites: PSC 1010, PSC 1020 or permission of instructor

The class will explore the political and administrative issues in the field of environmental politics. Environmental areas to be reviewed will include environmental theory, organizations, political behavior, assessment, law, and decision-making.

PSC 3240-3 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 administrative 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)

Prerequisite: PSC 3020 or permission of instructor

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 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

(AAS 3400) Contemporary Africa (3 + 0)

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 of these courses.

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 (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 3910-3

(AAS 3910) African Politics and Government (3 + 0)

Prerequisite: 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 of these courses.

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)

Prerequisite: permission of Political Science Department

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)

Prerequisite: permission of Political Science Department

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.

PSC 4400-3

(AAS 4400) South African Politics (3 + 0)

Prerequisite: PSC 1010 or AAS 1020 or permission of instructor

An in-depth study of the South African political system, its historical development and contemporary operation. Credit will be granted for only one of these courses.

Psychology

PSY 1001-3 Introductory Psychology (3 + 0)

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. (General Studies—Level II, Social Sciences)

PSY 1800-4 Developmental Educational Psychology (3 + 2)

This course focuses on how developmental and educational psychology can be used to better understand and teach children. Emphasis is placed on child development, birth through adolescence. Students will study a variety of theories about learning and the teaching process. Emphasis is on research-based approaches to effective teaching. Observation of children is a required part of the class.

PSY 2110-3 Educational Psychology (3 + 0)

Prerequisite: PSY 1001 or permission of the instructor

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)

Prerequisites: PSY 1001, satisfaction of the Level I Mathematics course requirement, and either ENG 1010

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)

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. (General 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.

PSY 2270-3 Death and Dying (3 + 0)

Prerequisite: PSY 1001

This course will study the individual as he/she copes with own or another's death from infancy through aging. Emphasis will be placed on common causes of death, the stages in the death process, psychotherapy with the dying patient and family members, and psychological interpretations of burial rituals.

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

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: PSY 1001

This course is an introduction to the content and methods of social psychology. Topics include social perception and cognition, social identity, attitudes, love and attraction, prejudice and discrimination, aggression, altruism, person perception, group dynamics and leadership, environmental effects on behavior, and consumer behavior.

PSY 2750-3 Introduction to Holistic Health (3 + 0)

Holistic health stands for an integration of factors in disease and health with an emphasis on positive health and wellness. This course explores biological, behavioral, cognitive, emotional, social, and spiritual factors in health, the research supporting a holistic perspective, and a practical application of these ideas.

PSY 2850-3 Psychology of Sexuality (3 + 0)

Prerequisite: PSY 1001 or permission of instructor

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.

PSY 2950-3 Contemporary Issues: (Variable Topics) (3 + 0)

Prerequisite: PSY 1001

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 a mastery of an academic content area in psychology. Course content will vary, and the course may be repeated for credit for different issues. Issues considered may include psychology of management; dynamics of depression; stress management; and others.

PSY 3000-3 Theories of Personality (3 + 0)

Prerequisite: PSY 1001

Students will learn the major contemporary theories of personality. The course will emphasize neurobiological, behavioral, psychodynamic, cognitive, and humanistic perspectives on human behavior and mental processes. The underlying philosophies and research support for these theories will be examined.

PSY 3050-3

(WMS 3050) Psychology of Gender (3 + 0)

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.

PSY 3070-3 Psychology of Sexual Orientation (3 + 0)

Prerequisite: PSY 1001 and 6 additional hours of PSY 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.

PSY 3100-3 Psychology of Counseling (3 + 0)

Prerequisite: PSY 1001

This course is intended to provide students with a first course in psychological foundations of counseling. It also will provide opportunities for students to investigate and become familiar with a variety of counseling and therapy models.

PSY 3170-3 Multicultural Service Learning (2 + 2)

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. (Multicultural)

PSY 3250-3 Child Psychology (3 + 0)

Prerequisites: PSY 1001 and satisfaction of all General Studies Level I course requirements
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)

Prerequisites: PSY 1001 and satisfaction of all General Studies Level I course requirements

This course covers the major theories of adolescence and research related to adolescent behavior, including emphasis on the physical, social, cognitive and emotional developments of this period. (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.

PSY 3310-3 Psychological Research Methods I (2 + 2)

Prerequisite: PSY 2310; completion of or concurrent registration in PSY 2320 is strongly advised This course will introduce the student to basic methodology concerned with the collection or interpretation of data. Both experimental and field techniques will be surveyed.

PSY 3320-3 Psychological Research Methods II (2 + 2)

Prerequisites: 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 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)

PSY 1001; PSY 2160 or PSY 2410 Prerequisites:

This course entails an 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 the course may be repeated for credit for different topics. Topics considered may include: transpersonal psychology, social learning theory, attitude change, and others.

PSY 3440-3 Cravings and Addictions (3 + 0)

PSY 1001 Prerequisite:

This course offers a multidisciplinary analysis of a broad range of addictive disorders including alcohol or other drugs and a spectrum of behavioral disturbances including excessive eating, exercising, gambling, and risk taking. Emphasis is placed on contemporary strategies for prevention, early intervention, and treatment.

PSY 3450-3 Industrial Psychology (3 + 0)

PSY 1001 Prerequisite:

This course provides 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 work situations, personnel selection and training, consumer psychology, advertising, and sales are considered.

PSY 3470-3 Psychology of Violence and Aggression (3 + 0)

PSY 1001 and three additional hours of psychology coursework Prerequisites:

This course provides an overview of the major theoretical perspectives in violence and aggression, as well as application in the following research areas: family violence, criminal violence, gang/cult violence, wartime violence, and more. It concentrates on psychological mechanisms of aggression, the prevailing social norms, and cognitive factors that facilitate the expression of aggression. Remedies are suggested on both the individual and global level.

PSY 3480-3

(WMS 3480) Psychology of Women (3 + 0)

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.

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 human functioning. Course content will vary and may be repeated for credit as the course title changes. Topics may include information processing, stimulus control of behaviors, health psychology, and others.

Environmental Psychology (3 + 0) PSY 3550-3

Prerequisites: PSY 1001 and PSY 2310

This course surveys empirical and theoretical work on the influence of the physical environment on human behavior and experience and the psychological factors in environmental problems and solutions.

PSY 3570-3 Cognitive Psychology (3 + 0)

Prerequisite: fifteen hours of psychology or permission of instructor

This course examines current research and theory in the areas of attention, memory, perception, pattern recognition, language, decision making, problem solving, and creativity. Information processing and other perspectives are explored.

PSY 3590-3 Theories of Motivation (3 + 0)

PSY 1001, nine hours of upper-division psychology, and BIO 1000 or equivalent

This course surveys psychological theories of motivation and supporting research. Topics include: needs, drives, homeostasis, escape, avoidance, anger, aggression, cognitive consistency, achievement, power, and altruism. Primarily for psychology majors and minors.

PSY 3620-3 Abnormal Psychology (3 + 0)

Prerequisites: PSY 1001, and any one of the following: PSY 2210, PSY 3000, PSY 3570, or PSY 3590 Students examine the major theories of abnormal behavior: neurobiological, behavioral, psychodynamic, cognitive, and humanistic. The course provides a description of the behavior patterns defined as abnormal, an explanation about the causes of abnormal behavior, and a realization of how management and treatment strategies stem from notions of causation.

PSY 3700-3

(AAS 3700) Psychology of Racism and Group Prejudice (3 + 0)

Prerequisites: PSY 1001, AAS 1010, and three hours of coursework at the 2000-level or above in AAS,

CHS, ICS, NAS, PSY, or WMS, or permission of instructor

This course examines the origins, nature, and transmission of prejudice from a psychological perspective. Specific areas examined include racism, sexism, classism, and homophobia. Theoretical orientations, research, and perspectives on change are addressed.

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)

Prerequisites: PSY 1001, PSY 2310, and either PSY 3000 or PSY 3620

This course studies the underlying assumptions of reliability and validity; and use of tests in achievement, aptitude, and diagnostic situations. The course surveys selected instruments of each type stressing utility and limitations.

PSY 4300-3 Sensation and Perception (3 + 0)

Prerequisites: BIO 1000 or equivalent, PSY 1001, PSY 2310, and nine additional hours of psychology

coursework

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 4310-3 Physiological Psychology (3 + 0)

Prerequisites: BIO 1000 or equivalent, PSY 1001, and nine hours of upper-division psychology courses, or

permission of instructor

This course studies the physiological bases of normal and abnormal behavior with emphasis on neurology and hormones.

PSY 4390-3 Psychology of Learning (3 + 0)

Prerequisites: PSY 2310 and nine hours of upper-division psychology courses, or permission of instructor This course provides a general study of the psychology of learning including leading theories and principal empirical findings, both historical and contemporary. This course includes both animal and human learning.

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 engineering dealing with the problems and processes involved in designing equipment and environments to optimally serve their intended functions. Emphasis is on the industrial applications of psychological research data to the design of equipment and environments.

PSY 4450-3 Advanced Statistics: SPSS (3 + 0)

Prerequisites: PSY 2320 or its equivalent, and permission of instructor before enrolling

This course offers study of multivariate statistics such as multiple regression, factor analysis, discriminant analysis, and multivariate analysis of variance. Students will learn how to use the Statistical Package for the Social Sciences to perform the necessary statistical tests. Emphasis will be on understanding, application, and interpretation of the multivariate statistics.

PSY 4510-3 History and Systems of Psychology (3 + 0)

Prerequisites: fifteen semester hours of psychology, satisfaction of all Level I and Level II General Studies

course requirements, and senior standing

This course presents a critical survey of major theoretical systems in psychology in the context of an historical perspective. (Senior Experience)

PSY 4630-3 Introduction to Clinical Psychology (3 + 0)

Prerequisites: PSY 3000 and PSY 3620

This course is a survey of behavior disorders with an emphasis on diagnostic and therapy theories, procedures, and techniques. There is a focus on Colorado law covering the practice of psychology as well as ethical issues in the practice of therapy.

PSY 4950-3 Pro-seminar in Psychology (Variable Topics) (3 + 0)

junior or senior standing and psychology major or minor Prerequisites:

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 for credit for different topics. Topics considered may include advanced seminar in sexuality, forensic psychology, psycholinguistics, honors seminar, and others.

PSY 4970-3 Teaching of Psychology (3 + 0)

fifteen semester hours of psychology, junior or senior standing, psychology major or minor Prerequisites: 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. Students prepare presentations, critiques, and discussions of emerging issues.

Reading

RDG 1510-3 Cognitive Strategies for Analytical Reading (3 + 0)

Prerequisites: minimum performance standard score on the reading preassessment placement test 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, Communication)

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 3120-4 Developing Print Literacy: Preschool-Grade 3 (4 + 0)

EDU 2340 and EDU 2350 or permission of instructor

This course will prepare prospective teachers for teaching reading to diverse populations of young children. The focus is on instruction that will enable children to develop the skills, concepts, and attitudes necessary for greatest success in becoming proficient with print. The course is intended for those who will be in contact with children in preschool through grade three.

RDG 3130-4 Teaching Reading in the Elementary School: K-6 (4 + 0)

EDU 2120 and PSY 1800 or permission of instructor Prerequisites:

This course introduces prospective teachers to all aspects of elementary reading instruction. It includes defining the reading process, emergent literacy, word identification strategies, developing vocabulary and comprehension skills. Instructional approaches, programs and materials designed for diverse populations will be examined.

RDG 3140-2 Whole Language Integration Across the Curriculum (2 + 0)

Prerequisites: RDG 3120, RDG 3130, or RDG 3280 or permission of instructor

Focus is placed upon comprehension-centered whole language as a process. As a result of this course, prospective teachers will be able to implement integrated reading and writing instruction using literature.

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 3160-4 Strategies for Enhancing Adult Literacy (4 + 0)

RDG 3140 or permission of instructor Prerequisite:

This course introduces prospective teachers to all aspects of adult basic literacy instruction. Included are word identification skills, comprehension-based instructional strategies, and vocabulary-building techniques that can be used in an integrated curriculum with functionally limited adults in adult basic education courses.

Teaching of Reading and Writing in the Content Areas (4+0) EDU 3110 and EDU 3120 or permission of instructor RDG 3280-4

Prerequisites:

This course is designed for students expecting to teach a content area subject in grades 6-12. Special emphasis is given to the literacy skills (listening, reading, writing, discussion, and thinking) that should be incorporated into content area instructional planning and decision making.

RDG 3530-2 Techniques of Teaching Reading to Non-English Speakers (1 + 2)

RDG 3120 or RDG 3130 or RDG 3280 or permission of instructor

This course covers theories, methods, and techniques for teaching language and reading to the non-English speaker in grades K-6. A minimum of 25 hours of tutoring with a non-English speaker is required.

RDG 3580-3 Reading in the Bilingual–Bicultural Classroom (3 + 0)

Prerequisites: RDG 3120 or RDG 3130 or RDG 3280 and proficiency in Spanish

This course emphasizes the teaching of Spanish reading skills in the bilingual-bicultural classroom, preschool through third grade. Methods and techniques for systematically teaching the primary child to speak and read the Spanish language are included.

RDG 3600-3 Practicum in Teaching Reading (1 + 4)

Prerequisite: RDG 3120 or RDG 3130 or RDG 3280 or permission of instructor

This course encompasses planning, preparing, and presenting reading lessons for a group of students in developmental reading programs. It is designed to acquaint prospective teachers with the practical application of theoretical concepts of teaching. Fifty clock-hours of experience in public or parochial schools are required.

RDG 4250-4 Literacy Assessment Theory and Practice (4 + 0)

Prerequisite: RDG 3600 (may be taken concurrently), or permission of instructor

This course focuses on literacy development from kindergarten through secondary grade levels. Students learn to administer and interpret appropriate assessment instruments and use the results to write instructional plans designed to further literacy development for a diverse population of students.

RDG 4340-2 Development of Reading/Writing Instructional Materials and Procedures (2 + 0)

Prerequisite: RDG 3600 (may be taken concurrently), or permission of instructor

This course is designed to provide students with the opportunity to analyze and construct visual aids and writing materials appropriate for teaching reading and writing, reinforcing reading skills and concepts, and remediating reading deficiencies.

RDG 4500-3 Language Arts and the Classroom Computer (3 + 0)

Prerequisite: RDG 3120, RDG 3130, or RDG 3280 or permission of instructor

Reviews the role of, evaluation of, and strategies for integrating computer software into the language arts classroom. Introduces a common word processing and database program and uses in developing reading and writing.

RDG 4550-1-3 Current Literacy Issues: Variable Topics (1-3 + 0)

Prerequisites: RDG 3120 or RDG 3130 or RDG 3280 or permission of instructor

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)

Prerequisite: satisfaction of all Level I and Level II General Studies course requirements, senior standing,

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)

Russian

RSN 1010-5 Elementary Russian I (5 + 0)

This is an introductory course designed to teach all four language skills: speaking, listening comprehension, reading, and writing. Classroom activities will put a special emphasis on the development of speaking skills through structured interactions and natural communication between the students. An overview of selected aspects of Russian culture will be incorporated into the course through a variety of activities.

RSN 1020-5 Elementary Russian II (5 + 0)

Prerequisite: RSN 1010 or equivalent

As a continuation of RSN 1010, this course further emphasizes pronunciation, speaking, and understanding based on more complex grammar, reading, and writing activities.

Science

SCI 2800-6 Conceptual Science and Mathematics (5 + 2)

Prerequisites: MTH 1110, MTH 1310, or MTH 1610; and either ENG 1010 or completion of the Level I

Communication requirement

This interdisciplinary course develops operational and reasoning skills in the sciences and mathematics. Laboratory work reinforces skills and develops knowledge through applications in the content areas of biology, chemistry, earth science, mathematics, and physics. (General Studies—Level II, Natural Science)

SCI 3950-3 Methods of Teaching Science (3 + 0)

Prerequisite: major or minor in science

Designed for those students preparing for teaching science in the secondary school. Course content will include methods of teaching, examination of existing curricular models and construction of curricula. To be taken not more than two semesters before student teaching.

Social Work

SWK 1010-3 Introduction to Social Welfare and Social Work (3 + 0)

Prerequisites: concurrent enrollment in SWK 1020 for social work majors and satisfaction of Level I Gen-

eral Studies course requirements

Historical and philosophical perspectives of social worker's generalist practice and social welfare programs in response to human need, and social problems. Overview of social worker's role in the field of health, mental health, family and child welfare, corrections, and on behalf of special groups such as the aging and developmentally delayed. (General Studies Course—Level II, Social Sciences)

SWK 1020-1 Introduction to Agency Experience (1 + 0)

Prerequisites: social work majors must enroll concurrently in SWK 1010

Introduces student to social work roles in social service agencies. Concurrent volunteer experience in social work agency is required.

SWK 2020-3 Social Work with Women (3 + 0)

Prerequisite: SWK 1010 or permission of instructor

The focus is on social work practice with women: social welfare programs, treatment modalities, social policies and issues related to women are significant themes.

SWK 2050-3 Human Behavior and the Social Environment I (3 + 0)

Explores major biopsychosocial theories of human behavior and development—infancy to adolescence—with special sensitivity to the meaning of culture and diversity. Includes concepts such as social injustice, ecological perspective and empowerment.

SWK 2060-3 Human Behavior and the Social Environment II (3 + 0)

Prerequisite: SWK 2050

Explores major biopsychosocial theories of human behavior and development—adolescence to later adult-hood—with special sensitivity to the meaning of culture and diversity. Includes concepts such as social injustice, ecological perspective, and empowerment.

SWK 3010-4 Social Work Services for Children and Adolescents (4 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060 or permission of instructor

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)

Prerequisite: SWK 1010, SWK 1020, SWK 2050, SWK 2060, 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)

Prerequisite: SWK 1010, SWK 1020, SWK 2050, SWK 2060 or permission of instructor

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 3410-4 Introduction to Generalist Practice (4 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060 or permission of instructor

Introduction to generalist social work practice with emphasis on professional values, roles, relationships, and interviewing. Develop an understanding of the problem-solving approach including initial contact, data collection, problem definition, and goal setting. Utilize cultural and gender sensitive practice skills and knowledge.

SWK 3450-3 Mutual Aid Groups in Social Work (3 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060 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 participation.

SWK 3780-3 Social Work Policy (3 + 0)

Prerequisite: SWK 1010 or permission of instructor

Social work policies at the federal, state, and local levels form the context of direct practice. Social work 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: SWK 1010, SWK 1020, SWK 2050, SWK 2060 or permission of instructor. Students must

complete MTH 1210, Introduction to Statistics, before enrolling in this course.

Fundamental principles, methodology and techniques of social research are applied to social work practice issues. Concepts, skills, and values essential to the design and implementation of a research project are emphasized. Critical analysis and effective utilization of published research are major themes.

SWK 4010-4 Advanced Social Work Practice (4 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410 or permission of instructor; stu-

dents must enroll concurrently in SWK 4790

Assessment, intervention, and evaluation stages of generalist practice with oppressed populations—individuals, families, groups, organizations and communities. Includes advanced generalist practice, crisis intervention, risk management in protective services.

SWK 4250-3 Exploring Current Social Work Issues (3 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410, SWK 3780, SWK 3790 or per-

mission of instructor

Assessing and addressing the impact of current social work issues on individuals, families, groups and communities.

SWK 4410-4 Advanced Cross-Cultural Social Work Issues (4 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410, SWK 4010 or permission of

instructor

Emphasis is on empowerment of individuals, families groups, communities and organizations who have experienced social injustice. Applies principles and perspectives essential to helping African-American, Hispanic, Native-American, Asian-American, and other minority clients through case examples.

SWK 4790-5 Professional Internship I (0 + 5)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410, SWK 3780, SWK 3790 and

permission of instructor

Corequisite: SWK 4010

Students demonstrate readiness for beginning professional employment while in their supervised placements. Completion of a senior project is required that further integrates the academic (theoretical) program with practice experience in the field.

SWK 4810-5 Professional Internship II (0 + 5)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410, SWK 3780, SWK 3790, SWK

4010, SWK 4790 and permission of instructor. Satisfaction of Level I and Level II General

Studies course requirements and senior standing

Corequisite: SWK 4850

Students continue to demonstrate readiness for beginning professional employment while in their supervised placements. Completion of a senior project further integrates the academic (theoretical) program with the practice experience in the field. (Senior Experience)

SWK 4850-3 Integrative Seminar (3 + 0)

Prerequisites: SWK 1010, SWK 1020, SWK 2050, SWK 2060, SWK 3410, SWK 3780, SWK 3790, SWK

4010, SWK 4790 or permission of instructor

Corequisite: SWK 4810

Designed to provide for discussion and critical analysis of student's field work experience. Integration of values, ethics, previously learned academic course material with special emphasis on ethnicity and diversity issues.

Sociology

SOC 1010-3 Introduction to Sociology (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

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)

SOC 1040-3 Introduction to Gerontology (3 + 0)

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

(AAS 2000) Social Movements and the Black Experience (3 + 0)

Prerequisite: 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. This course may be taken only under one prefix: AAS or SOC.

SOC 2010-3 Current Social Issues (3 + 0)

Prerequisites: satisfaction of the Level I Mathematics course requirement, and either ENG 1010 or the

Level I Communication course requirement

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)

SOC 1010 Prerequisite:

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.

SOC 3040-3 Contemporary Issues in Gerontology (3 + 0)

Prerequisite: SOC 1010

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 3090-3 Urban Sociology (3 + 0)

SOC 1010 Prerequisite:

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 communications 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

(CHS 3100) The Chicano Community (3 + 0)

Prerequisite: CHS 1000 or permission of instructor and satisfaction of all Level I General Studies course

requirement

An in-depth study of the history of community organizations, the process by which they came about, and information about organizations and their functions in the community. Credit will be granted for only one prefix: CHS or SOC. (General Studies—Level II, Social Sciences; Multicultural)

SOC 3140-3

(AAS 3300)

The Black Community (3 + 0)
AAS 1010 or AAS/SOC 2000, or permission of instructor and satisfaction of all Level I Gen-Prerequisites:

eral 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 3160-3 Industry, Work and Occupations (3 + 0)

SOC 1010 Prerequisite:

Provides a sociological perspective of labor force trends and the nature of work in the United States. The technological, demographic, cultural, and social context of work will be examined, as well as the individualistic factors affecting occupational processes and outcomes.

SOC 3220-3

(WMS 3220) Race, Gender and Ethnic Groups (3 + 0)

SOC 1010, WMS 1001, or permission of instructor, and satisfaction of all Level I General Prerequisites:

Studies course requirements

A focus on 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; implications in current societal structures and institutions. Credit will be granted for only one prefix: SOC or WMS. (General Studies—Level II, Social Sciences; Multicultural)

SOC 3240-3 Poverty in America (3 + 0)

SOC 1010 Prerequisite:

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.

Sociological Theory: Past and Present (3 + 0) SOC 3320-3

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: SOC 1010

This course is designed to study the changing nature of the family in a changing society. A variety of theoretical perspectives will be incorporated to facilitate an understanding of the transitions taking place in the areas of sex roles, coupling, parent-child relationships as well as variations in lifestyle, including historical and crosscultural data.

SOC 3420-3 Education in a Changing Society (3 + 0)

Prerequisite: SOC 1010

An analysis of all levels of formal education in contemporary American society, focusing on the formal and informal goals of education, the relation of education to other societal institutions and to social change, and current issues regarding education in the U.S.

SOC 3430-3

(WMS 3350) Sociology of Gender Roles (3 + 0)

SOC 1010 or WMS 1001 Prerequisite:

An exploration of 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-role stereotyping in the United States and in other societies, and on the effects on individuals and the broader society in terms of maintaining and/or changing gender roles.

SOC 3440-3

(AAS 3550)

The Black Family (3 + 0)
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: AAS or SOC. (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 analyses 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

(CHS 3210) The Chicano Family (3 + 0)

CHS 1000 or permission of instructor and satisfaction of all Level I General Studies course Prerequisites:

Provides the participant with an opportunity to study the Chicano family as a social institution in its varying manifestations as it transmits knowledge for existence in a multicultural world. Credit will be granted for only one prefix: SOC or CHS. (General Studies Course—Level II, Social Sciences)

SOC 3500-3 Criminology (3 + 0)

Prerequisite: SOC 1010

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)

Prerequisite: SOC 1010

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.

SOC 3590-3 Social Statistics (3 + 0)
Prerequisites: MTH 1210 and SOC 1010

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, interpretation, and reporting techniques.

SOC 3650-3 Contemporary Social Trends: Variable Topics (3 + 0)

Prerequisite: SOC 1010

An examination of trends and/or issues in contemporary society, using the sociological perspective. Each section addresses a separate issue or development. May be repeated under each different topic.

SOC 3710-3 Politics and Power (3 + 0)

Prerequisite: SOC 1010

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, sociological theories of power, and possible consequences of various political structures.

SOC 3730-3 Mass Media and Social Behavior (3 + 0)

Prerequisite: SOC 1010

A study of the function of mass media as a dynamic force in political, economic, and social life, and its multidimensional structure and impact for creating new personal behavior, as well as collective behavior in contemporary society.

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

Examination of past and current demographic theories, the factors associated with population growth, decline, and dispersion, and the national population policies of those nations addressing themselves to the issue of the world population explosion.

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)

Prerequisite: SOC 1010

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 insitutions, and social change.

SOC 4200-3 Social Stratification and Inequality (3 + 0)

Prerequisites: SOC 1010 and SOC 3320

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 4210-3 Structure and Dynamics of Modern Organizations (3 + 0)

Prerequisites: SOC 1010 and SOC 3320

The course examines theories of social organization, basic processes and problems that occur between the individual and the design of the organizational structure, and contemporary examples of organizational structures that are designed to meet organizational goals and individual needs.

SOC 4220-3 Society and the Environment (3 + 0)

Prerequisites: SOC 1010 and senior standing

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 4300-3 Social Change (3 + 0)

Prerequisite: SOC 1010

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 4350-3 Advanced Seminar in Sociological Theory: Variable Topics (3 + 0)

Prerequisite: permission of instructor

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, Parsons; or of selected theoretical systems in contemporary or classical sociology. May be repeated under different topics.

SOC 4600-3 Advanced Research in the Social Sciences (3 + 0)

Prerequisite: 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)

Prerequisites: SOC 2010 and upper-division standing

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 (2 + 2)

Prerequisites: SOC 3320, SOC 3600, satisfaction of Level I and Level II General Studies 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 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)

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 1110-3 Basic Conversational Spanish I (3 + 0)

This course is designed to teach the essentials of the Spanish language through a conversational approach.

SPA 1120-3 Basic Conversational Spanish II (3 + 0)

Prerequisite: SPA 1110 or equivalent or permission of instructor

A continuation of SPA 1110.

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 Intermediate Spanish (3 + 0)

Prerequisites: SPA 1010 and SPA 1020

This course emphasizes 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 (3 + 0)

Prerequisite: SPA 2110, or equivalent, or permission of instructor

This intermediate course is designed to afford the student the necessary practice to communicate with ease in Spanish. Emphasis lies on vocabulary building, reading of cultural material, and conversational skills.

SPA 2310-3 Spanish Grammar and Composition I (3 + 0)

Prerequisite: SPA 1020 or two or three years of high school Spanish

Intermediate course to review and strengthen 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 language 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 3100-3 Spanish Terminology for the Bilingual Classroom (3 + 0)

Prerequisite: two years of college Spanish, its equivalent, or permission of the instructor

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, emphasizing 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)

Prerequisite: two years of college Spanish or equivalent, or permission of instructor

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)

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 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 3330-2 Spanish Social and Commercial Correspondence (2 + 0)

Prerequisite: SPA 2320 or equivalent, or permission of instructor

This course presents the fundamental points relative to personal and business letters in Spanish, special emphasis on the development of a vocabulary for all types of letters.

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. 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 Masterpieces of Latin American Literature (3 + 0) Prerequisite: SPA 3250 or equivalent, or permission of instructor

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 with an emphasis in the late nineteenth and early twentieth centuries. Conducted in Spanish.

SPA 3520-3 Contemporary Mexican Literature (3 + 0)

Prerequisite: SPA 3250 or equivalent, or permission of instructor

This is a course that presents the most representative literary figures of contemporary Mexico. Beginning with the novel of the Revolution, the student will be reading and discussing the works of living authors, including Juan Rulfo, Carlos Fuentes, and Octavio Paz. Conducted in Spanish.

SPA 3800-115 International Advanced Spanish (115 + 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 conducted in Spanish.

SPA 4110-3 Contemporary Spanish Literature (3 + 0)

Prerequisite: SPA 3400 or SPA 3410 or equivalent, or permission of instructor

This course involves the study and discussion of the major works in contemporary Spanish literature. The course is designed to provide a meaningful language experience through literature and to give an insight into essential problems common to the Hispanic world. 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 4200-3 Spanish-American Essay: 19th and 20th Centuries (3 + 0)

Prerequisite: SPA 3110 or equivalent, or permission of instructor, satisfaction of all Level I and Level II

General Studies course requirements, and senior standing

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 History of the Spanish Language (3 + 0)

Prerequisite: SPA 3140 and SPA 4010 or SPA 4020, satisfaction of all Level I and Level II General Stud-

ies 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

SPE 1010-3 Public Speaking (3 + 0)

Prerequisites: minimum performance standard scores on the reading and writing preassessment placement

tests

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, Communication)

SPE 1400-3 The Emerging Role of Women and People of Color in Radio and Television (3 + 0)

Prerequisite: permission of instructor

This course is designed to give students a comprehensive overview of the roles of women and people of color in radio and television. This includes portrayals of these two groups in the popular entertainment media, representation on the news, and the job climate and outlook in both radio and television.

SPE 1700-3 Communication Theory (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

A review of the research, theoretical assumptions, and models of the oral communication process, this course is designed to provide students with a broad understanding of the basis of oral communication as patterned human behavior.

SPE 1710-3 Interpersonal Communication: The Individual as a Communicator (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

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 the course is to increase the students' communication self-esteem. (General Studies—Level I, Communication)

SPE 1730-3 Listening and Interviewing Communication Skills (3 + 0)

Prerequisite: SPE 1010 and SPE 1700 or SPE 1710

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 situation types of interviews will be explored in the course using listening techniques as the primary communication skill.

SPE 2110-3 Discussion Methods (3 + 0)

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)

Prerequisites: SPE 1010 and SPE 1700 or permission of the instructor

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 communication systems, informational effectiveness, and ethical considerations.

SPE 2200-3 Creative Dramatics for the Classroom Teacher(3 + 0)

Prerequisites: SPE 1010 or permission of instructor

This course is designed to introduce 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.

SPE 2210-3 Introduction to Theatre (3 + 0)

Prerequisites: ENG 1010 and either SPE 1010 or permission of instructor

A comprehensive view of theatrical art providing an understanding of the living stage, its players and craftsmen, and its place as a cultural force in society from antiquity to contemporary times. (General Studies—Level II, Arts and Letters)

SPE 2220-3 Techniques of Acting I (3 + 0)

Prerequisite: SPE 2210 or permission of instructor

This course provides an introduction to the basic principles of acting including improvement of voice, body, and mind in the discipline of the theater. Particular emphasis is placed on the principles of stage movement, improvisation, and beginning scene work.

SPE 2230-3 Techniques of Acting II (3 + 0)

Prerequisite: SPE 2210, SPE 2220, or permission of instructor

This course builds upon basic principles of acting, including improvisation, character development, stage movement, voice, and scene work. Study topics include development of audition techniques, basic acting, television acting techniques, and advanced scene work.

SPE 2240-3 Introduction to Stagecraft (2 + 2)

Prerequisite: SPE 2210 or permission of instructor

An introduction to the methods and materials of play production including design and construction of sets, lighting practices, techniques of costuming, stage management, and staging methods.

SPE 2400-3 Introduction to Radio and Television Broadcasting (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

The evolution, organization, and function of broadcasting. Introduction to some of the techniques employed in radio and television broadcasting including film techniques and the film industry as related to the broadcasting industry in the U.S.

SPE 2500-3 Introduction to Communication Disorders (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

This course is intended for non-speech pathology majors or those with a beginning interest in the speech field. The course is designed to assist students in examining the anatomical and physiological aspects of speech production, language, and hearing. This course will focus on common communication disorders.

SPE 2710-3 Interpersonal Communications: the Dynamics of Group Interaction (3 + 0)

Prerequisite: SPE 1010

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)

Prerequisite: 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 Interpersonal Conflict (3 + 0)

Prerequisite: SPE 1010

This course develops strategies for managing conflict dynamics in communication interactions at work, home, at school. Effort is made to pinpoint individual communication conflict styles and to assess their effectiveness in conflict interaction.

SPE 2770-3

(WMS 2770) Gender and Communication (3 + 0)

Prerequisite: SPE 1010/SPE 1710 or permission of instructor; ENG 1010 and satisfaction of Level I Com-

munication requirement

This course is designed to test the students' ability to inventory their own culturally derived gender communication patterns, especially those in public speaking; analyze those patterns, contrast their own resulting functional and dysfunctional gender communication behaviors; relate those behaviors and their outcomes to their personal work and professional lifestyles; and formulate and test new behaviors based on increased gender communication awareness. Credit will be granted for only one of these courses. (General Studies—Level II, Arts and Letters)

SPE 3010-3 Advanced Public Speaking (3 + 0)

Prerequisites: SPE 1010 and SPE 2110 or permission of instructor

Preparation, presentation, and appraisal of speeches on challenging 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)

Prerequisites: SPE 1010 and satisfaction of Level I General Studies course requirements

A study of selected American speakers, this course critically examines the primary theses developed in major American speeches. This critical analysis includes a rhetorical examination of the rhetorical skills of the speaker based on the persuasive models of Aristotle, Burke, and Griffin, etc. 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

A course designed for the business and professional person, stresses presentational speaking to secure immediate decision. Emphasis is placed on audio-visual materials in sales, training, and policymaking situations. Students are required to eliminate wordiness in their messages.

SPE 3110-3 Strategies of Organizational Leadership (3 + 0)

Prerequisite: 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)

Prerequisite: SPE 1010 and SPE 3110, or permission of instructor

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

The course emphasizes communication patterns in governmental institutions, public influence, campaign strategies, propaganda tactics, 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 3200-3 Oral Interpretation: Prose and Poetry (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

A study of traditional and contemporary theories of interpretation of prose and poetry for the purpose of making that literature come alive for the listening audience, and to improve oral communication skills. Numerous oral performances for the application of techniques.

SPE 3220-3 Stage Movement (3 + 0)

Prerequisite: SPE 2220 or permission of instructor

This course provides the student/performer with intense instruction in the use and training of the total human body for communication of artistic expression.

SPE 3230-3 Acting III: Styles of Acting (3 + 0)

Prerequisite: SPE 2210, SPE 2220, SPE 2230, or permission of instructor

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.

SPE 3250-3 Introduction to Scenic Design and Theatre Lighting (2 + 2)

Prerequisites: SPE 2210 and SPE 2240, or permission of instructor

The basic elements of scene design and stage lighting for theatrical productions. Several actual design and lighting projects with lectures on the different theories and styles. Emphasis will be placed on design procedures, color, projection, and equipment control, and utilization of facilities.

SPE 3280-3 Stage Directing (2 + 2)

Prerequisites: SPE 2220 and SPE 2240, or permission of instructor

This course provides an introduction to the principles and techniques of directing for the theater that includes the selecting, rehearsing, and performance of plays, and the presentation of student-directed projects.

SPE 3300-3 Voice Science: Phonetics and Voice and Diction (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

Applied instruction in the International Phonetic Alphabet including the science of speech sounds. Particular emphasis is placed on the use of phonetics, and the improvement of acceptable standards of usage in General American Speech.

SPE 3430-3 Radio-Television Announcing (3 + 0)

Prerequisites: SPE 2400 and SPE 3300

An advanced course in "on air" operations designed to meet the specific needs of the telecommunications broadcaster and the radio-television-film announcer. Instruction designed to develop pleasing and persuasively effective verbal/vocal/nonverbal communication as a means for improving a variety of telecommunications presentations will be included. Special emphasis will be placed on standard American usage of speech and language particularly as applied to the International Phonetic Alphabet.

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 the direction of multicamera productions. Specific attention will be focused on preproduction, including identification of audience by age, sex, and culture; production; and post-production activities and procedures. Students will participate in a variety of projects and production capabilities.

SPE 3450-3 Broadcast Journalism: Radio (3 + 0)

Prerequisites: SPE 1010, ENG 1010, JRN 1810, JRN 1820, JRN 2820, JRN 2860, or permission of instructor This course is an introduction to radio news writing. It teaches students how broadcast news copy differs from print journalism. It involves learning the techniques of writing in the strict broadcast style used in newsrooms across the nation.

SPE 3470-3 Evolution of Cinematics as Art (2 + 2)

Prerequisite: SPE 2400 or permission of instructor

A course designed to explore the historical, technical, and aesthetic elements of film 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 some 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 including women, children, men, ethnic groups, occupational groups, organizations, etc., for use on commercial and/or educational radio.

SPE 3500-3 Anatomy and Physiology of the Speech and Hearing Mechanism (3 + 0)

Prerequisites: SPE 1010 or permission of instructor; BIO 1080 is strongly recommended

This course examines the anatomy and physiology underlying human communication and studies the systems of audition, respiration, phonation, and articulation. Students study how anatomical and physiological deficits relate to communicative pathologies.

SPE 3520-3 Language Acquisition (3 + 0)

Prerequisites: SPE 1010 or permission of instructor

This course studies language acquisition in children: phonology, morphology, syntax, and semantics. Emphasis is on the study of language as a rule-system, linguistic and cognitive implications, and language functions. It is intended for those interested in clinical careers in speech pathology and audiology, psychology, and education.

SPE 3530-3 Voice Science: Pathology and Technology (3 + 0)

Prerequisites: SPE 1010 or permission of instructor

This course teaches scientific vocabulary and current technology in diagnosis and analysis of voice function, pathological conditions, techniques for remediating those physiological abnormalities, as well as techniques for the students' personal voice and speech enhancement.

SPE 3540-3 Phonetics and Language Sample Analyses (3 + 0)

Prerequisite: SPE 3520 Corequisite: SPE 3520

Designed to provide students in communication disorders with the skill in language sample analysis needed to work with clinical populations. Students will gain an understanding of the science of speech sounds and utilize the International Phonetic Alphabet in transcribing spoken language. Students will analyze oral language samples using semantic, syntactic, pragmatic and phonological analysis procedures.

SPE 3570-3 Methods of Speech Pathology-Audiology: Diagnostic Procedures (3 + 0)

Prerequisites: SPE 3500 and SPE 3600

This course exposes students to the various processes of speech and the diagnostic techniques that are available to the speech pathologist and audiologist in determining the type and degree of the speech deficiency.

SPE 3580-3 Speech Disorders: Articulation and Stuttering (3 + 0)

Prerequisites: SPE 3500 and SPE 3540 or permission of instructor

This course considers common speech disorders and the development of articulation and phonological skills. It covers etiological factors, assessment techniques, and intervention principles used to manage articulation and stuttering deficits. It also introduces augumentative and alternative communication.

SPE 3590-3 Classroom Intervention for Communication Disorders (3 + 0)

Prerequisite: SPE 1010 or permission of instructor

This course is for students of speech communication, education, psychology, rehabilitation, nursing and related areas. It examines speech, language and hearing disorders that affect school-age children. It emphasizes class-room strategies to achieve communicative growth in children and adolescents who have speech, language and hearing problems.

SPE 3600-3 Audiology I (3 + 0)

Prerequisites: SPE 1010 or permission of instructor

Corequisite: SPE 3500

This course is designed as a study of the anatomy and physiology of the ear, and the measurement of sound and of hearing. Includes practice in testing of hearing sensitivity, interpretation of the audiogram, and treatment and audiological management of the hearing impaired.

SPE 3610-3 Audiology II (2 + 2)

Prerequisite: SPE 3600 or permission of instructor

Diagnostic and rehabilitative audiological procedures including the use of amplification. Emphasis is on special

testing.

SPE 3620-3 Aural Rehabilitation (3 + 0)

Prerequisites: SPE 3500 or SPE 3600 or permission of instructor

This course acquaints the student with the ramifications of hearing loss and assists in determining the intervention strategies most applicable to a particular hearing impaired client so as to enhance social adjustment, communication abilities, and vocational achievement.

SPE 3740-3 Psychology of Communication (3 + 0)

Prerequisites: SPE 1010 and SPE 2110, and satisfaction of Level I General Studies course requirements. This course explores the critical examinations of 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 the appeal of the 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 either SPE 1710 or SPE 2710 or SPE 2720, and satisfaction of Level I Gen-

eral Studies course requirements

This course leads students to an understanding of their own cultural backgrounds and communication patterns, as well as those used by "cultural strangers." The ultimate goal of the course is to broaden students' perspective of life and people and to expand their capacity to adapt to a changing world by exploring perceptual differences and verbal and nonverbal cultural communication similarities and differences. (General Studies—Level II, Arts and Letters, Multicultural).

SPE 3770-3 Interpersonal Communication in the Family (3 + 0)

Prerequisites: SPE 1010 and either SPE 1710 or SPE 2710

This course is designed to assist students to better understand and improve interpersonal communication processes in families, including duo-career communication problems, personality patterns, family group roles, and their impact on interaction, verbal and nonverbal messages in family climates, and listening skills for managing family interpersonal conflict and change.

SPE 3800-3 Instructional Methods for Speech Teachers and Creative Speech (2 + 2)

Prerequisites: junior standing in the speech education program and/or successful completion of the process for becoming a bona fide speech major, and acceptance into the teacher education program,

or permission of instructor

A comprehensive course designed to provide prospective elementary or secondary teachers of speech to recognize various speech activities as an effective way to develop language and improve communication. Different ways of stimulating creativity will be explored.

SPE 4050-2 Advanced Intercollegiate Forensics (0 + 4)

Prerequisite: permission of instructor

For students participating extensively in competitive intercollegiate speech activities. A maximum of eight hours credit may be applied toward a degree.

SPE 4080-3 Rhetorical Criticism of Public Address (3 + 0)

Prerequisite: 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 or permission of instructor, and satisfaction of all Level I and Level II General Prerequisites:

Studies course requirements, and senior standing

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 and contemporary persuasive campaigns. Students will have opportunities to develop persuasive 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 Stud-Prerequisites:

ies 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. Also, to examine and refine 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)

Advanced Organizational Communication (3 + 0) SPE 4160-3

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 4200-3 Reader's Theatre (3 + 0)

SPE 2210, SPE 3200, SPE 3280, or permission of instructor Prerequisites:

Concerned with improving the skill of reading dramatic material aloud, usually as a member of a group of student readers. Emphasis is on script preparation. Programs will be videotaped and may be presented in public performances.

SPE 4260-1 Theatre: Practicum I (0 + 2)

Prerequisites: SPE 1010, SPE 2240, or permission of instructor

To provide the student with a direct practical experience in production of theatrical productions, thus augmenting the theoretical aspects of other theater courses. May be repeated for credit for three semesters as the same course number.

SPE 4270-2 Theatre: Practicum II (0 + 4)

SPE 2240, SPE 3280, SPE 4260, or permission of instructor Prerequisites:

An advanced course in practical supervision and administration of theatrical productions. Students will direct, design, and manage the plays produced during the semester. Open only to junior- and senior-level students. May be repeated for three semesters as the same course number.

SPE 4440-3 Advanced Television Production (3 + 0)

SPE 3440 Prerequisite:

This is an advanced course in television production with projects in both studio and field. Specific attention focuses on preproduction, production, and postproduction activities of advanced program production. Students will participate in a variety of projects and production capacities.

SPE 4450-3 Broadcast Journalism: Television (3 + 0)

SPE 3450 Prerequisite:

This course is an introduction to television news writing. It teaches students how to write for the visual medium. It includes "on-air" stand-up reporting, newscast writing, and writing to visuals and videotape. It prepares students for advanced level courses in broadcasting.

SPE 4480-3 Seminar Practicum in Broadcasting (0 + 6)

Prerequisite: SPE 3480 or permission of instructor

An advanced course in direct broadcast production that shows the student an opportunity to supervise a variety of production elements through first-hand experience as a producer/director. Open only to junior and senior level broadcast students. This course may be repeated for three semesters.

SPE 4490-3 Effects of Radio-Television on Contemporary Life (3 + 0)

Prerequisite: SPE 2400 or permission of instructor, satisfaction of all Level I and Level II General Studies

course requirements and senior standing

A study of some significant effects of radio-television and the electronic mass media on twentieth century lifestyles. Particular emphasis will be given to "key" indicators of effects including demographics and current research. (Senior Experience)

SPE 4500-1-3 Clinical Practice in Speech Pathology and Audiology (0 + 2-6)

SPE 3500, SPE 3510, SPE 3570, SPE 3600 and SPE 3610, or permission of instructor Methods of administration of clinical tests of speech pathology and audiology and the application of the principles. Students are introduced to supervised clinical practice.

SPE 4510-3 Language Disorders (3 + 0)

Prerequisite: SPE 3520 or permission of instructor

This course examines language disorders and how neurological, environmental and sociocultural factors contribute to them. The course considers principles of assessment and intervention in dealing with language disorders, with particular emphasis on child language disorders and their effects.

SPE 4550-1 Practicum in Speech Pathology (0 + 2)

Prerequisites: SPE 3500 and SPE 3510, or permission of instructor

Supervised application of the principles and techniques of speech pathology in administering and interpreting voice and articulation tests in the speech and hearing clinic.

Medical Aspects of Speech and Hearing Disorders (3 + 0)

Prerequisites: SPE 3510, SPE 3610, or permission of instructor

This is a course in advanced anatomy and physiology of the communication structures, focusing on neurology including an examination of several neurologically passed speech, language, and hearing disorders. Representatives from related fields will present relevant research findings on communication disorders and approaches to remediation.

SPE 4630-1 Practicum in Audiology (0 + 2)

Prerequisite: SPE 3610 or permission of instructor

Supervised application of the principles and techniques of audiology in administering and interpreting hearing tests in the speech and hearing clinic.

SPE 4700-3 Speech Communication and the Trainer (3 + 0)

Prerequisite: SPE 1010, SPE 1700, SPE 1710, SPE 2710 or permission of instructor

A course 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)

Prerequisite: SPE 1010 and SPE 1710 or SPE 2710

Designed to investigate the particular communication patterns and problems of the aged, the course focuses on the culturally communicated attitudes toward the elderly via media, marketing, and institutions, as well as specific communication issues of the aged such as the communication of intimacy, friendship, control, health confirmation in work environments, home life, retirement, and death.

Surveying and Mapping

SUR 1510-4 Surveying I (2 + 4)

Prerequisite: high school or college trigonometry or MTH 1400

This is the introductory course in elementary surveying. It covers the theory of measurements; methods of collecting and recording data; reduction of angles, directions, distances, and elevations; the computation and adjustment of traverses; methods of computing areas; and inversing and plotting by coordinates.

SUR 2520-4 Surveying II (2 + 4)

Prerequisite: **SUR 1510**

This course, with separate field exercises, designed to cover the theory and applications of the state plane coordinate system; the introduction to control, boundary, construction surveys; photogrammetry; astronomic observations; circular and parabolic courses; and earthwork. Modern theodolites and total stations are used in the field.

SUR 2530-4 Route Surveying (2 + 4)

SUR 2520, SUR 2620 Prerequisites:

This course is designed to expand the introduction to circular and parabolic curves and earthwork treated in SUR 2520. It includes the mathematics of spirals; mass diagram of earthwork quantities; highway alignment and design; and surveys for other routes (i.e., railroads, pipelines, tunnels, transmission lines, etc.)

SUR 2550-3 Surveying Computations (3 + 0)

Prerequisite: SUR 1510

This course is designed to provide instruction in methods of computations used in solving problems in surveying. These include traverse rotation circular curve problems, intersection problems, land-area partitioning, resection, reduction to center, secants to a circle. It includes the use of programmable, hand-held, and personal calculators in problem-solving exercises.

SUR 2620-3 Survey Drafting (2 + 4) Prerequisites: CEN 1200, SUR 1510

A study of map symbols, contours, sources for map data, and methods used in map plotting, including computeraided drafting. Also studied are topographic maps and survey plats, and methods of reproduction.

SUR 2650-3 Photogrammetry I (2 + 3)

Prerequisites: SUR 2520, SUR 2620

This introductory course to the arts, science, and technology of photogrammetry is designed to apply the laws of physics and geometry to the operation of the aerial camera; the vertical, tilted, and overlapping air photography; flight planning; ground control and stereo-plotters.

SUR 2710-2 Astronomy for Surveyors (2 + 0)

Prerequisite: SUR 2520

This course is designed to apply the principles of spherical trigonometry to the solutions of problems for the determination of position and direction on the celestial sphere. Altitude and hour-angle methods of solar observations and stellar observations of Polaris and other stars will be done.

SUR 3540-3 Boundary Law I (3 + 0)

Prerequisite: SUR 2520

This course provides instruction in the legal principles applicable to boundary control, the subdivision of public lands and property rights.

SUR 3620-3 Cartographic Surveys (2 + 3) Prerequisites: MTH 1410, SUR 2520, SUR 2620

This course is designed to provide instruction in mapping techniques, the use and interpretation of U.S. government maps, introduction to map projections; the military grid (Universal Transverse Mercator, etc.). Students will do both field work and map drafting.

SUR 3660-3 Land Information Systems (3 + 0)

Prerequisite: SUR 2520

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 3760-3 Surveying Data Adjustment (3 + 0)

Prerequisites: MTH 2140, MTH 3210, SUR 2520, SUR 2550

This course is designed to provide a firm foundation in the basic principles used in the adjustment of survey data, using the method of least squares. It includes error propagation, weighted means, and the preanalysis of survey measurements.

SUR 4480-3 Geodesy (3 + 0)

Prerequisites: MTH 2410, SUR 4740, PHY 2330

This course is designed to introduce the student to geometric geodesy, three-dimensional coordinate system, geodetic astronomy, gravimetric geodesy, tidal movements, satellite geodesy, Laplace stations, deflection of the vertical, and the North American Datum of 1983.

SUR 4530-3 Site Planning (3 + 0)

Prerequisites: SUR 2550, SUR 2620, SUR 3540

This course is designed to provide an introduction to case studies in land development or subdivision, including preliminary plans, final plats, grading plans, storm sewer plans, erosion control, and other design aspects of site planning.

SUR 4540-3 Boundary Law II (3 + 0)

Prerequisites: SUR 2550, SUR 3540, SUR 3660

This course is designed to treat the areas of evidence and procedures for boundary location. Statute and case laws are studied. The professional aspects of land surveying and the concept of the multipurpose cadastre are covered.

SUR 4650-3 Photogrammetry II (2 + 3)

Prerequisites: SUR 2650, SUR 3760

This course is designed as a continuation of the study of photogrammetry which was introduced in SUR 2650. Students are introduced to the characteristics of photographic films, the interpretation of air photos, the concepts of analytical photogrammetry, survey control extension and densification, and modern instrumentation.

SUR 4740-4 Geodetic and Special Surveys (3 + 2)

Prerequisite: SUR 3620

This course is designed to engage the students in the study and execution of the techniques required for second order precise surveying measurements, the testing and use of precise instruments, reduction to datum, geodetic computations, hydrographic and mine surveys, gyro theodolites, and brief introduction to the Global Positioning System.

Technical Communications

COM 2400-3 Basic Video Editing (2 + 2)

This is an introductory course that covers the fundamental principles, aesthetics, and procedures necessary to perform linear videotape editing. Students will learn how to perform correct video edits, the importance of aesthetics in editing, and how to translate editing theory to practical applications.

COM 2410-3 Basic Multi-Image Production (2 + 2)

This course serves as an introduction to the principle of multi-image photography, programming for one and two projector shows, preparation of graphics, sound recording and mixing, and presentation techniques.

COM 2420-3 Basic Corporate Videotape Production (2 + 2)

This course serves as an introduction to the fundamentals of basic corporate videotape production terms and techniques. Students will produce single-camera, remote productions.

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 (2 + 2)

Prerequisite: CMS 1010 or permission of instructor.

This course serves as an introduction to the fundamentals of basic multimedia production. The students will produce a multimedia program.

COM 2460-3 Presentation Graphics (2 + 2)

The student will design and produce computer graphic images for use in informational presentations, multiimage programs, computer screen show presentations, and print publications.

COM 2480-3 Corporate Animation (2 + 2)

This course introduces students to the production of 2-D and 3-D animation for the corporate applications. The course focuses on techniques used to create objects and move them in order to communicate a specific messsage. Students will use hardware and software solutions for the creation of animations.

COM 2600-3 Basics of Technical Style (3 + 0)

This course provides students with the requirements of technical style as they differ from standard English usage. Emphasis is placed on signs, symbols, abbreviations, acronyms, numerals, and handling of mathematical computations. The course is required for all majors in the writing and editing emphasis and the industrial communication emphasis who do not pass the initial screening test.

COM 2610-3 Introduction to Technical Writing (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

This course offers practice in the specific techniques required for writing in the areas of technology and science; particular emphasis is placed on report formats for government, science and industry, and the various audiences requiring technical information. 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 3310-3 International Technical Communications (3 + 0)

Prerequisite: 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 3350-3 International Technical Media (3 + 0)
Prerequisite: COM 2430 or permission of instructor

This course covers the technology required to produce and distribute international technical media. The course content deals with fiber optics, satellite sending and receiving systems, global standards and evolving technologies.

COM 3410-3 Advanced Multi-Image Production (1 + 4)

Prerequisite: COM 2410 or permission of instructor

Students will examine and learn complex multi-image techniques. Students will cooperatively produce a multi-image presentation that has a specific audience, purpose, and budget. Advanced photographic and audio applications will be applied to production and programming of the presentation.

COM 3420-3 Intermediate Corporate Videotape Production (1 + 4)

Prerequisite: COM 2420 or permission of instructor

This course teaches intermediate videotape production terms and techniques. Students will write, produce, and direct a videotape program that has a specific corporate purpose and audience. Students will schedule a remote production and edit a videotape program.

COM 3440-3 Corporate Scriptwriting for Film and Television (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

This course stresses the principles of corporate film and television scriptwriting, organization, and writing of story outlines, treatments, formats, and scripts. It provides training in the fundamentals of visual and audio applications and production viewing and analysis of film and television productions.

COM 3450-3 Intermediate Multimedia Production (2 + 2)

Prerequisite: COM 2450 or permission of instructor

This course teaches intermediate multimedia production terms and techniques. The students will write a script, create graphic and audio elements, and produce and direct a multimedia program that has a specific corporate/educational purpose and audience.

COM 3470-3 Writing for Corporate Audio (3 + 0)

Prerequisite: ENG 1010 or permission of instructor

This course introduces the student to the techniques of writing words to be heard versus words to be read. The student will practice writing narration and dialogue and learn to create an aural scene using music and sound effects.

COM 3510-3 Industrial Communication (3 + 0)

Prerequisite: COM 2720, equivalent work experience, or permission of instructor

This course focuses on the study of organizational communications, stressing information flow within organizations. Emphasis is placed on the structure and function of communication networks in and between business, government, and industrial organizations. Practice in solving typical communication problems is included.

COM 3520-3 Communication of Power and Authority (3 + 0)

Prerequisite: sophomore standing or three years full-time employment, or permission of instructor 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)

Prerequisite: 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 corporation's culture in relation to their own personalities.

COM 3560-3 Variable Topics in Industrial Communicating (3 + 0)

Prerequisite: COM 2720 or permission of instructor

This is a current topics course that studies topics of particular interest to people concerned with communication activities in industrial and governmental organizations. The content of the course changes each semester and may be repeated for credit.

COM 3610-3 Advanced Technical Writing (3 + 0)

Prerequisite: COM 2610 or equivalent work experience

This course covers the advanced study of the techniques and principles of technical writing as applied to reports, manuals, and proposals, using formats common to government, science, and industry. It includes the study of report design, audience analysis, report use, and writer intent.

COM 3620-3 Technical Editing (3 + 0)

Prerequisite: COM 2600 or permission of instructor

This course presents techniques for editing technical publications including all levels of edit, document management and collaboration with writers.

COM 3630-3 Designing Technical Publications (2 + 2)

Prerequisite: COM 2610 or permission of instructor

This course emphasizes the need for appropriate presentation of technical material to enhance the usability of publications. It focuses on processes, vocabulary, use of publishing software, and interaction between writer and designer through hands-on experience.

COM 3640-3 Writing Computer-User Software Documentation (3 + 0)

Prerequisite: COM 2610 or CMS 2010 or CSI 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)

Prerequistes: 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 3780-3 Communications Law (3 + 0)

Prerequisite: six hours of COM, JRN, or business courses, or permission of instructor

This study of legal practices that impact professional communicators places special emphasis on copyright as it applies to print media, computers, satellite transmission, and visual presentation; the law of privacy; federal trade regulations; and other areas of special interest to industrial and technical communicators.

COM 4410-3 Budgeting and Planning for Audio-Visual Productions (3 + 0)

Prerequisites: senior standing, 12 hours COM designated courses (nine of which must be upper-division),

and satisfaction of all Level I and Level II General Studies course requirements

Methods and techniques for budgeting and planning. Viewing and analysis of A-V programs, scheduling for production in terms of time, equipment and cost. Evaluation of finished programs. (Senior Experience)

COM 4420-3 Advanced Videotape Production (2 + 2)

Prerequisite: COM 2420 and COM 3420, or permission of instructor

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 corporate video production. Students will obtain outside clients for the final videotape project.

COM 4440-3 Advanced Corporate Scriptwriting (3 + 0)

Prerequiste: COM 3440 or permission of instructor

Students will examine advanced aspects of scriptwriting. Audience analysis and program goals will be studied in order to determine content and conceptual approaches. A variety of writing techniques and forms will also be explored in written assignments. Students will write at least three scripts, one of which requires client approval.

COM 4630-3 Costing and Planning Technical Publications (3 + 0)

Prerequisites: junior standing or 12 hours of COM-designated courses of which nine hours are upper level This course focuses on methods and techniques for planning, scheduling and budgeting technical publications. Students analyze large publication projects to determine schedule, budget, resources, estimating, productivity, and cost analysis.

COM 4760-3-12 Advanced Internship in Technical Communications (0 + 936)

Prerequisites: 12 semester hours of COM designated courses and the recommendations of two technical

communications faculty members

This advanced, on-the-job learning experience enables students to work in their chosen career fields. An approved plan from a cooperating organization serves as the course outline for a specific advanced 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)

Prerequisites: senior standing and 12 or more hours of COM or AES designated courses, or permission of 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)

Telecommunications

TLC 2490-1-6 Internship in Radio-Television-Film-Mass Communications (0 + 3-18)

Prerequisites: SPE 2400 and one additional three-hour course in the area of broadcasting or permission of

instructor

Students will receive in-service training at selected radio, television, film or industrial stations or facilities within the greater Denver metropolitan community. The in-service training will vary according to the specific station or facility to which the student is assigned.

TLC 3490-1–15 Advanced Internship in Radio-Television-Film-Mass Communications (0 + 3–45)

Prerequisites: TLC 2490

Students will receive advanced in-service training at selected radio, television, film, or industrial stations or facilities within the greater Denver metropolitan community. The advanced in-service training will vary according to the specific station or facility to which the student is assigned and the semester hours earned will also vary accordingly. This course may be repeated for four semesters and the total amount of semester hours earned overall in TLC 3490 will be determined by the department and the telecommunications adviser.

Urban Studies

URS 1000-3 Introduction to Urban Studies (3 + 0)

This course concentrates on: What are urban studies, and how do they affect the daily activities of all urban area residents and institutions? An introductory cross-disciplinary approach to the symbiotic relationships between people and their urban environments. Particular emphasis is placed on the role of transportation and housing as they influence urban patterns.

URS 2000-3 An Inside Look at Urban Institutions (3 + 0)

A course taught by representatives of private, local, state, and federal institutions serving urban areas. These institutions are primarily concerned with housing, public services, transportation, planning and land use. The representatives will explain the functions of their particular institutions. The course will be coordinated by a faculty member.

URS 2890-1-3 Urban Problems: Topics (1 + 03 + 0)

The course will focus on current urban problems across the nation. Topics may include problems with pollution, water supply, urban sprawl, controlled growth, and alternative forms of transportation.

URS 3000-3 World Patterns of Urbanization (3 + 0)

Prerequisite: URS 1000 or introductory course in SOC, HIS, ANT Non-U.S.

A survey and examination of major urbanized world regions and the development of urban systems. Emphasis will be on non-Western urbanization.

URS 3280-3 Transportation: Issues and Policies (3 + 0)

Prerequisite: URS 1000 or URS 2000, URS 2280, or permission of instructor

Involves students in the problems of moving people and goods in urban areas. Transportation networks will be analyzed in terms of individual neighborhoods, social needs and political decision making. Focus of the course will be Denver, Colorado.

URS 3300-3 Housing: Issues and Policies (3 + 0)

Prerequisite: URS 1000, URS 2000, or permission of instructor

The focus of this course is on current social and economic issues regarding housing in America's urban areas. Topics covered include housing markets, components of housing costs, housing for low income, aged and minorities, housing standards, and land development.

URS 3500-3 Emerging Urban Political Systems (3 + 0)

Prerequisites: Any six hours from PSC 3000, PSC 3020, URS 2000 or URS 2100

The course focuses on changes in the nature of urban governmental issues and processes. It includes the political organization of urban sprawl, new towns, exurbs, neighborhoods, regional governments, and cities in political transition.

URS 3510-3 Community Development and Planning (3 + 0)

Prerequisites: nine hours of urban studies, sociology, or urban land use

This course focuses on planning and community development on a small scale. It will include community and institutional structures, and relationships to public policies, as well as funding agencies. Students will prepare a community development plan.

URS 3710-3 Ethnic Groups in U.S. Cities (3 + 0)

Prerequisites: URS 1000 plus three hours of political science, sociology, anthropology, or human geography A social, economic, psychological and spatial investigation of ethnic groups in U.S. cities. Emphasis will be on the development of ethnic consciousness and its implication for economic, political, and cultural identity and residential-community maintenance.

URS 3800-3 Applied Urban Research Methods (3 + 0)

Prerequisite: URS 1000

A survey course designed to acquaint class participants with practical yet sophisticated methods of conducting applied urban research. Population census materials, archival and government records, and other research techniques will be examined and utilized to develop individual and group projects.

URS 3890-1-3 Readings in Urban Studies (1-3 + 0)

Prerequisites: 6–9 hours of urban studies plus permission of instructor and department chair

Provides an opportunity for students with a background in urban studies to pursue study on a specific topic. Will require frequent meetings between student and instructor.

URS 4500-3 Cities of the Future (3 + 0)

The focus of this course will be to identify and evaluate alternate futures for cities. The course will explore the possible futures of urban politics, economics, employment, transportation, and related areas.

URS 4890-4 Interdisciplinary Seminar (4 + 0)

Prerequisites: nine hours in urban studies plus upper-division standing

Truly a team-taught course that will utilize the talents and expertise of several different professors addressing the same topic from their respective viewpoints. In viewing each concentration, three professors from such fields as psychology, land use, sociology, political science, urban studies, or history will jointly teach the course. Each time the seminar is offered a different area of concentration will be stressed.

Women's Studies

WMS 1001-3 Introduction: Woman in Transition (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tests

This course introduces the discipline of women's studies, the historical development of feminist thought, and the social, economic, and technological factors that have led to changing roles for women throughout the world; examines patterns of female socialization and psychological development within a sex/gender system that differentiates and stratifies human beings in the workplace, the law, the media, education, religion, health care, and intimate relationships; and focuses analysis on race and class with particular attention to women of color and non-Western women cross-culturally.

WMS 1130-2 Directed Readings in Women's Studies (1 + 2)

This course permits the student to develop a basic knowledge of the materials and information involved in the discipline of women's studies. Through the selections read, students will develop an overview of the theories, history and scope of the literature in the discipline. This course offers individualized instruction and personal consultation with faculty.

WMS 1650-3

(HIS 1650) Women in U.S. History (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment placement

tes

Women in U.S. History 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. This class presents 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 300 years. Credit will be granted for only one of these courses. (General Studies—Level II. Historical)

WMS 2010-3 Women's Studies Research Methods (3 + 0)

Prerequisite: WMS 1001

Designed to introduce students to the variety of methods, both interdisciplinary and disciplinary, that are used in conducting women's studies research, this course covers basic critical theory and major interdisciplinary methods adapted from the arts, humanities and social/behavioral sciences. Students also learn to employ interdisciplinary and disciplinary resources in the field, including electronic networks.

WMS 2100-3

(AAS 2100, CHS 2100, ICS 2100, NAS 2100) Women of Color (3 + 0)

Prerequisite: minimum performance standard scores on the reading and writing preassessment tests; one of the following: AAS 1010, CHS 1000, ICS 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, class, and ethnicity 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; religion; and politics. Credit will be granted for only one of these courses. (General Studies—Level II, Social Sciences; Multicultural)

WMS 2340-1-3 Career and Personal Development (Variable Title) (1-3 + 0)

Prerequisite: WMS 1001 or permission of instructor

These courses will aim at self-improvement and career enhancement and will include such titles as: Women and Health, Women and Aging, Career Mobility, and New Directions for Women. Check *Class Schedule* for each semester's offerings. May be repeated for credit as titles change.

WMS 2450

(ENG 2450) Women's Literature (3 + 0)

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 of these courses.

WMS 2650-3

(HIS 2650) Women of the West (3 + 0)

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 of these courses.

WMS 2770-3

(SPE 2770) Gender and Communication (3 + 0)

Prerequisite: SPE 1010/SPE 1710 or WMS 1001 or permission of instructor, ENG 1010, and satisfaction

of Level I Communication requirement

This course is designed to test the students' ability to inventory their own culturally derived gender communication patterns, especially those in public speaking; analyze those patterns, contrast their own resulting, functional and dysfunctional gender communication behaviors; relate those behaviors and their outcomes to their personal work and professional lifestyles; and formulate and test new behaviors based on increased gender communication awareness. Credit will be granted for only one of these courses. (General Studies—Level II, Arts and Letters)

WMS 2980-1-3 Cooperative Education Internship (Variable Credit) (0 + 3-9)

Prerequisites: WMS 1001, sophomore standing, and permission of instructor

An entry-level work experience in a social service agency, nonprofit organization, or an agency of local, state, or federal government in an area related to women's studies. Supervised by professionals on the job in cooperation with women's studies faculty members. Recommended for minors and individualized degree programs.

WMS 3050-3

(PSY 3050) Psychology of Gender (3 + 0)

Prerequisite: PSY 1001 or WMS 1001 (as appropriate)

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 of these courses.

WMS 3070-3

(PSY 3070) Psychology of Sexual Orientation (3 + 0)

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 of these courses.

WMS 3130-3 Advanced Readings in Women's Studies (1 + 4)

Prerequisites: ENG 1020 and WMS 1001 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. This course builds on WMS 1130, but students are not required to have taken WMS 1130 previously.

WMS 3180-3

(PHI 3180) Feminist Philosophy (3 + 0)

Prerequisites: two philosophy courses and junior standing, or permission of the instructor

A course that examines traditional philosophical questions and positions in metaphysics, epistemology, and philosophy of science and explores how these questions and positions are rethought in twentieth-century Feminist Philosophy. Students will be expected to write a project paper in addition to other exams given in the course. Credit will be granted for only one of these courses.

WMS 3220-3

(SOC 3220) Race, Gender and Ethnic Groups (3 + 0)

Prerequisites: SOC 1010, WMS 1001, or permission of instructor, and satisfaction of all Level I General

Studies course requirements

This course focuses on race, racism, sex 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 of these courses. (General Studies—Level II, Social Sciences; Multicultural)

WMS 3310-3

(CJC 3710) Women and the Law (3 + 0)

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 of these course numbers.

WMS 3350

(SOC 3430) Sociology of Gender Roles (3 + 0]

Prerequisite: SOC 1010 or WMS 1001; satisfaction of Level I and Level II General Studies requirements

and senior standing

This course explores the 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-role stereotyping in the United States and in other societies, and on the effects on individuals and the broader society in terms of maintaining and/or changing gender roles. Credit will be granted for only one of these courses.

WMS 3360-3

(HIS 3360) Women in European History (3 + 0)

Prerequisites: HIS 1010, HIS 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 of these courses.

WMS 3420-2-3 Women and the Humanities (Variable Title) (2-3 + 0)

Prerequisite: WMS 1001 or permission of instructor

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. May be repeated once for credit as titles change.

WMS 3440-3 Women and the Natural Sciences (Variable Title) (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. May be repeated once for credit as titles change.

WMS 3450-3 Women and the Arts (Variable Title) (3 + 0)

Prerequisite: WMS 1001 or permission of instructor

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. May be repeated once for credit as titles change.

WMS 3460-3 Women and the Social Sciences (Variable Title) (3 + 0)

Prerequisite: WMS 1001, SOC 1010, or permission of instructor, and satisfaction of all Level I General

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. May be repeated once for credit as titles change.

WMS 3480-3

(PSY 3480) Psychology of Women (3 + 0) 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 of these courses.

WMS 3510-3 Feminist Theory (3 + 0)

Prerequisites: WMS 1001 and satisfaction of Level I General Studies course requirements

This course studies both the classical tradition of feminist thought and its contemporary expression. Beginning with the "protofeminist" thinkers of the seventeenth century, it analyzes traditional theories of "woman's nature." Feminist theory's primary concern is with the humanistic foundations of multicultural, social, psychological, and political theories of women. Primary and secondary sources in several disciplines are examined as they contribute to the development of the eight major varieties of contemporary feminist thinking.

WMS 3670-1-3 Contemporary Issues in Women's Studies (Variable Title) (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. May be repeated once for credit as titles change.

WMS 3860-3

(HIS 3860) Advanced U.S. Women's History (3 + 0)

Prerequisites: HIS 1210 or HIS 1220 or HIS/WMS 1650, or permission of instructor

This course provides an in-depth examination of issues pertinent to women of the Americas. Themes will include pre-Columbian culture, immigration, work, family life, and women's rights. Credit will be granted for only one of these courses.

WMS 3950-3

(ART 3950) Women's Art/Women's Issues (3 + 0)

Prerequisites: WMS 1001, ART 1040 or ART 2000, 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 of these courses. (General Studies—Level II, Arts and Letters)

WMS 3980-1–12 Cooperative Education Internship (Variable Credit) (0 + 3–36)

Prerequisites: WMS 1001, junior 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 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 Title) (1-3 + 0)

Prerequisite: 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. May be repeated once for credit as titles change.

WMS 4750-3 Senior Seminar (3 + 0)

Prerequisite: six credits in women's studies or permission of instructor, satisfaction of all Level I and Level

II General Studies course requirements, and senior standing

Designed primarily for Individualized Degree Program majors and minors as the culmination of work in women's studies, this seminar will cover interdisciplinary bibliography and research methodology. Students will write and present in the seminar their senior paper. As each project will be individual, papers will reflect each student's particular course of study. Open to Individualized Degree Program majors and minors and others by permission of the instructor. (Senior Experience)

WMS 4860-3

(HIS 4860) History of Feminism and Women's Rights (3 + 0)

Prerequisites: 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.

Office of the President

THE STATE COLLEGES IN COLORADO

Metropolitan State College of Denver is governed by the Trustees of The State Colleges in Colorado. Other institutions governed by the Trustees are Adams State College, Mesa State College, and Western State College.

Each member institution can provide any student in good standing with the materials needed to enroll temporarily in any other member institution without incurring additional matriculation costs. Information concerning tuition is available at the host institution.

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George Brantley, Aurora	1993	
Cile Chavez, Ph.D., Littleton	1995	
Cole Finegan, Vice Chair, Denver	1993	1997
James Fleming, Grand Junction	1991	1999
Dona Goss, Crested Butte	1995	1999
Ignacio Martinez, Alamosa	1995	
Stuart Monroe, Faculty, MSCD	1996	1997
Sergio Gutierrez, Student, MSC	1996	
William Fulkerson, Ph.D., President of The State Colleges in Colorado		

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354 ADMINISTRATION

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DEPARTMENT CHAIRS	
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Chemistry Gerhard Lind, Ph.D.	
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Mathematical and Computer Sciences	
Modern Languages	
Music	
Philosophy	
Physics	
Political Science	
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Sociology/Anthropology/Social Work	
Speech Communications	
Director of the Institute for Women's Studies and Services Jodi Wetzel, Ph.D.	
Director of the Center for Mathematics, Science and	
Environmental Education	
Director of the Family Center (Acting)	
Director of Social Work Program	
Director, Writing Center Jackie Swensson, Ph.D.	
School of Professional Studies	
Dean	
Assistant Dean TBA	
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Aerospace Science	
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Early Childhood and Elementary Education	
Engineering Technology	
Health Professions	
Hospitality, Meeting and Travel Administration (Acting) John Dienhart, Ph.D.	
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Co-Director of the Center for Addiction Studies	
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Director of the Child Development Center	



r. Sheila Kaplan became president of Metropolitan State College of Denver in September 1993. Dr. Kaplan is the eighth president of MSCD.

Previously, she held the positions of chancellor at the University of Wisconsin-Parkside and vice chancellor for academic affairs of the Minnesota State University System. Before joining the Minnesota System, she was vice president for academic affairs at Winona State University, in Winona, Minnesota. From 1972 to 1978, Dr. Kaplan was director of the City University of New York (CUNY) baccalaureate program.

A native of Brooklyn, N.Y., Dr. Kaplan received her bachelor of arts degree in European history from Hunter College-CUNY in 1965, and her master of arts degree from Johns Hopkins University in 1967. The City University of New York awarded her a doctorate in 1973 after specialized study in modern European history and modern British history. From 1970 to 1975, she taught history at the Borough of Manhattan Community College-CUNY, Brooklyn College-CUNY, and Bernard M. Baruch College-CUNY.

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ART

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B.S., Polytechnic Institute of Brooklyn; M.S., Northern Arizona University; Ph.D., University of Colorado; Associate Professor of Mathematical Sciences

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Talman, Louis A.

B.A., College of Wooster; M.A., Ph.D., University of Kansas; Associate Professor of Mathematical Sciences

Taylor, John

B.A., Lehman College (CUNY); M.A., University of Colorado; Ph.D., University of North Texas; Assistant Professor of Mathematical Sciences

Thompson, Nancy M.

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Tucker, Patricia A.

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B.S., M.S., Ph.D., Iowa State University; Professor of Computer Science

Worosz, Theophil J.

B.A., M.A., State University of New York at Buffalo; Ph.D., University of Illinois; Associate Professor of Mathematical Sciences

Yarar, Ruth Goldberg

B.S., M.S., Hebrew University; M.Ph., University of London; Assistant Professor of Mathematical Sciences

MODERN LANGUAGES

Plaza Building, Room 360, 556-2908

Clay, Gudrun

B.A., University of Denver; M.A., Ph.D., University of Colorado; Professor of German

Conde, David

B.A., University of Northern Colorado; M.A., Ph.D., University of Kansas; Professor of Modern Languages

Doerr, Richard P.

B.A., Macalester College; M.A., University of Illinois; Ph.D., University of Colorado; Associate Professor of Spanish

Esquibel, Antonio

B.A., Adams State College; M.A., New Mexico Highlands University; Ph.D., University of New Mexico; Professor of Spanish

Garcia, Rodolfo

B.S., Bowling Green State University; M.A., Indiana University; Ph.D., Ohio State University; Assistant Professor of Spanish

Glatz, Lawrence

B.A., University of Pennsylvania; M.A., Penn State University; Ph.D., Penn State University; Assistant Professor of German

Hartenstein, Olivia Lopez

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Olmsted, Jr., Conway H.

B.A., Colorado College; M.A., Middlebury College; Ph.D., University of Colorado; Associate Professor of Spanish

Ranwez, Alain D.

A.B., Montclair State College; Ph.D., University of Missouri; Professor of French

Williams-Gascon, Ann

B.A., Adams State College; M.A., University of Cincinnati; Ph.D., Northwestern University; Associate Professor of French

MUSIC

Arts Classroom Building, Room 286, 556-3180

Barr, Walter L.

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Cable, Susan L.

B.M., Oberlin College Conservatory; M.M., University of Illinois; D.A., University of Northern Colorado; Professor of Music

Gunn, Nancy

B.A., St. Lawrence University; M.A., University of Michigan; Ph.D., City University of New York; Assistant Professor of Music

McCollum, Jerrald D.

B.M., Florida State University; M.M., Ph.D., University of Southern Mississippi; Professor of Music

Miles, Ronald G.

B.M., University of Denver; M.M., University of Colorado; Assistant Professor of Music

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B.M., M.M., Oberlin Conservatory of Music; D.M.A., University of Arizona; Associate Professor of Music

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Tamblyn, Hal

B.M., M.M., University of Colorado; D.M.A., University of Kansas; Professor of Music

Worster, Lawrence

B.S., St. Lawrence University; B.A., University of Colorado, Boulder; M.Mus., University of Colorado, Boulder; Ph.D., University of Colorado, Boulder; Assistant Professor of Music

PHILOSOPHY

West Classroom Building, Room 161, 556-3097

Chu, Antonio Kin-On

B.A., Cornell University; M.A. and Ph.D., University of Wisconsin-Madison; Assistant Professor of Philosophy

Doepke, Frederick C.

B.S., M.A., University of Florida; Ph.D., University of California-Berkeley; Professor of Philosophy

Gould, Timothy

A.B., M.A., Ph.D., Harvard University; Professor of Philosophy

Gudmundsen, Sandra

B.A., M.A., University of Montana; Ph.D., University of Colorado; Assistant Professor of Philosophy

Sullivan, David

B.A., University of Chicago; M.A., University of Illinois, Chicago; Ph.D., University of Illinois, Chicago; Assistant Professor of Philosophy

Sypel, Roland

B.A., St. Catherine's College/Oxford University; B.Phil., St. Catherine's College/Oxford University; D.Phil., Oxford University; Associate Professor of Philosophy

PHYSICS

North Classroom Building, Room 3123, 556-2454

Davies, Edward J.

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Doty, Steven

B.S., M.S., Ph.D., Rensselaer Polytechnic Institute, Assistant Professor of Physics

Freudenstein, Sidney A., III

A.B., University of California; M.S., Ph.D., University of Colorado; Professor of Physics

Krantz, Richard

B.S., St. Lawrence University; M.S., Colorado State University; Ph.D., Colorado State University; Assistant Professor of Physics Olsen, David P.

B.S., M.S., South Dakota State University; Ph.D., University of Oklahoma; Associate Professor of Physics

Political Science

West Classroom Building, Room 163, 556-3220

Bauer, Monica

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Hazan, Robert

Dipl., University of Grenoble, France; M.A., Illinois State University; M.A., Ph.D., University of Denver; Associate Professor of Political Science

Meranto, Oneida

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Provizer, Norman

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Vigil, Joseph D.

B.A., Metropolitan State College; M.A., University of Colorado, Denver; Instructor of Political Science

Wright, Robert C.

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PSYCHOLOGY

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Hoffman, Morton

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Kitzman, Morey

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Leong, Deborah

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Mirich, John J.

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Saville, Thomas K.

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Schneider, Robert J.

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Susman, Ellen Pennes

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Wang, May X.

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Watson, Mary Ann

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Wickelgren, Lvn W.

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SOCIOLOGY, ANTHROPOLOGY AND SOCIAL WORK

West Classroom Building, Room 156, 556-3167

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Bacigalupi, Tadini

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Cruz, Virginia

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Kaersvang, Lynn

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Keller, Kenneth M.

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Segall, Bernard

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Shwayder, Martha L.

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Steinhauser, Sheldon E.

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Wade, Roger C.

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SPEECH COMMUNICATION

Arts Building, Room 269, 556-3033

Blomberg, Dianne

B.A., Metropolitan State College; M.A., University of Northern Colorado; Ph.D., University of Denver; Assistant Professor of Speech Communication

Cook, W. Thomas

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Craig, James R.

B.F.A., College-Conservatory of Music of Cincinnati; M.S., Indiana University; Professor of Speech

Curran, Catherine

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Hetzel, Marilyn A.

B.A., University of Illinois; M.A., Ph.D., University of Colorado; Professor of Speech and Theatre Arts Director

Holbrook, Gary H.

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Johnson, Carl I.

B.A., M.A., University of Northern Colorado; Ph.D., University of Denver; Professor of Speech

Kottenstette, David T.

B.A., Regis University; M.A., University of Northern Colorado; Assistant Professor of Design and Technical Theater

Krupar, Karen

B.S., Northern State College; M.A., Ph.D., University of Denver; Associate Professor of Speech; Director, Academy for Teaching Excellence

WOMEN'S STUDIES AND SERVICES

1033 Ninth Street Park, 556-8441

Alejano-Steele, AnnJanette

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Hagen, Monys A.

B.A., University of Minnesota; M.A., Ph.D., University of Wisconsin; Assistant Professor of Women's Studies and History

McElhiney, Annette B.

B.A., M.A., University of Missouri; Ph.D., University of Denver; Professor of Women's Studies and English

Van Voorhis, Mary Lou

B.S., M.S., Mankato State University; Visiting Assistant Professor of Women's Studies and Secondary Education

Wetzel, Jodi

B.A., M.A., University of Utah; Ph.D., University of Minnesota; Director of the Institute for Women's Studies and Services; Professor of History

SCHOOL OF PROFESSIONAL STUDIES

West Classroom Building, Room 133, 556-2978

AEROSPACE SCIENCE

1250 Seventh Street, 556-2982

Balazs, Brent

B.S., U.S. Air Force Academy; M.S., North Carolina State University; M.A., Naval War College; Associate Professor of Aerospace Science

Caine, Jennifer

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Christian, Bruce A.

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Greener, William M.

B.S., National College; M.S., University of Northern Colorado; Professor of Aerospace Science

Jones, Jo Carol

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Kuhlmann, Kevin R.

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McCrillis, George R.

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Serrano, Felipe

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CRIMINAL JUSTICE AND CRIMINOLOGY

West Classroom Building, Room 152, 556-2980

Copley, Waldo H.

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Wilson, Jackie-Lynn

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ENGINEERING TECHNOLOGY

Civil Engineering Technology, Technology Building, Room 109, 556-3227

Electrical Engineering Technology, South Classroom Building, Room 213, 556-2503

Mechanical Engineering Technology,

Technology Building, Room 124, 556-2976

Agarwal, Avinash

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Cummings, David L.

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Ellerbruch, Doyle A.

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Sveum, Myron

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Synhorst, John

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Zimbelman, Harold F.

B.S.A.E., M.S.A.E., M.S.E.E., University of Colorado; P.E., Colorado; Professor of Civil Engineering Technology

EARLY CHILDHOOD & ELEMENTARY EDUCATION

West Classroom Building, Room 136, 556-6228

Anderson, Peggy

B.S., University of Florida; B.A., Flagler College; M.Ed., The Citadel; Ph.D., University of Denver; Professor of Early Childhood and Elementary Education (Special Education)

Berger, Eugenia H.

B.M.E., University of Kansas; M.A., Ph.D., University of Denver; Professor of Early Childhood and Elementary Education

Chipman, Marilyn H.

B.A., University of Denver; M.A., California State University; Ph.D., University of Denver; Assistant Professor of Early Childhood and Elementary Education

Kabisch, Cecilia D.

B.A., Federal University, Brazil; M.A., California State University-Fullerton; Ph.D., University of Colorado; Assistant Professor of Early Childhood and Elementary Education

Martinez, Lupe

B.A., M.A., San Francisco State University; Ph.D., University of Colorado; Associate Professor of Early Childhood and Elementary Education

Mena, Charles

B.S., University of Southern California; M.A., California State University; Ph.D., University of Colorado; Professor of Early Childhood and Elementary Education

Pollman, Mary Jo

B.A., University of Southern Mississippi; M.A., University of West Florida; Ph.D., Florida State University; Associate Professor of Early Childhood and Elementary Education

Robertson, Karen F.

B.S., M.A., Ohio State University; Ph.D., University of Iowa; Professor of Early Childhood and Elementary Education

Swetnam, Leslie A.

B.A., University of Northern Colorado; M.A., Michigan State University; Ph.D., Stanford University; Assistant Professor of Early Childhood and Elementary Education

HEALTH PROFESSIONS

South Classroom Building, Room 226, 556-3130

Cook, Margie Ball

B.S., Loretto Heights College; M.S., University of Colorado; Ph.D., University of Denver; Professor of Nursing

Cotton, Kenneth E.,

B.A., M.A., M.P.A., University of Colorado at Denver; M.B.A., University of Denver; Assistant Professor of Health Care Management

Daniel, Linda

B.S., Metropolitan State College of Denver; M.S., University of Colorado Health Sciences Center; Assistant Professor of Health Professions

Heyl, Kathy

B.S., Kansas State University; M.S., Colorado State University; Visiting Assistant Professor of Nutrition

Jass, Carolyn K.

B.S., Loretto Heights College; M.S., Ph.D., University of Colorado; Professor of Health Professions

Lander, Robert J.

B.S., Gannon University; M.A., University of Northern Colorado; Associate Professor of Health Care Management

McGuire-Mahony, Kathleen

B.S., University of Virginia; M.S., University of Colorado; Ph.D., University of Denver; Professor of Health Professions

Shanks, Nancy H.,

Ph.D., University of Colorado, Denver; M.S., Drexel University, Philadelphia; B.A. University of Colorado, Boulder; Associate Professor of Health Professions

HOSPITALITY, MEETING & TRAVEL ADMINISTRATION

Plaza Building, Room 124, 556-3152

Cresswell, Herbert F.

B.M.E., Southwest Texas State University; M.A., University of Texas at Tyler; Assistant Professor of Hotel Administration

Langbehn, Raymond D.

B.A., California State University; M.A., Webster University; Assistant Professor of Hotel and Restaurant Administration

Poynter, James M.

B.A., M.A., George Washington University; Associate Professor of Travel Administration

Spaulding, Yvonne

B.A., M.A., Western Michigan University; Assistant Professor of Meeting Administration

HUMAN PERFORMANCE, SPORT AND LEISURE STUDIES

PE/Events Center, Room 217, 556-3145

Broida, Jane K.

B.S., M.S., State University College of New York; Ed.D., Temple University; Professor of Leisure Studies

Harvey, Mark L.

B.A., St. Augustine's College; M.S., George Williams College; Ed.D., University of Utah; Professor of Human Performance and Sport

Johnson, Mary Black

B.S., M.S., Ph.D., University of Utah; Associate Professor of Human Performance and Sport

Johnson, Pat R.

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Kober, Jane E.

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Loeffler, Mary Ann

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Norton, Cheryl J.

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Powell, Frank R.

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Quatrochi, Joseph A.

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Rabinoff, Marc A.

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HUMAN SERVICES

West Classroom Building, Room 236, 556-2951

Branch, Charles V.

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Faragher, J. Michael

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Haber, Jeffrey S.

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Hatcher, Anne S.

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Monroe, Ben, III

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Nissen, Laura

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Rison, Faye

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Saltzman, Katherine A.

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Watson, Robert L.

B.A., M.A., Ph.D., University of Colorado; Associate Professor of Human Services

INDUSTRIAL STUDIES TECHNOLOGY

Technology Building, Room 124, 556-2916

Schmidt, John C.

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READING

Central Classroom Building, Room 207, 556-2995

Bailey, Nancy S.

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Buswell, Janice R.

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Cawley, J. Douglas

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Nichols, Carol D.

B.S., Southeast Missouri State University; M.Ed., University of Missouri-St. Louis; Ed.D., University of Northern Colorado; Professor of Reading Orlando, Vincent P.

B.S., University of Scranton; M.S., Bloomsburg State College; Ph.D., Pennsylvania State University; Professor of Reading

Snozek, Dorothy A.

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SECONDARY EDUCATION

North Classroom Building, Room 2028, 556-6227

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Friot, F. Elizabeth

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Heyman, Ernest L.

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Lazio, Thomas

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Taylor, Marilyn

B.A., University of California-Berkeley; M.A., San Francisco State University; M.Ed., Lesley College; Ed.D., University of Denver; Associate Professor of Secondary Education

Van Voorhis, Mary Lou

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TECHNICAL

COMMUNICATIONS
West Classroom Building, Room 256,

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Amend, Robert H.

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Ph.D., University of Denver; M.S., University of Denver; B.A., University of Wyoming; Associate Professor of Technical Communications

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Emeritus Faculty

Yoga D. Ahuja, Ph.D., Professor Emeritus—Philosophy

Dan Alfaro, Ph.D., Professor Emeritus–Student Teaching

Dorothy Babcock, R.N.M.S.C., Professor Emeritus–Health Professions

Russell D. Bean, Ph.D., Professor Emeritus–Accounting

Donald Bennett, Ed.D., Professor Emeritus–Elementary Education

Stephen Benson, Ph.D., Professor Emeritus–Philosophy

Harold J. Bestervelt, Ph.D., Emeritus Dean–School of Engineering Technology

Barbara Blansett, Ph.D., Professor Emeritus–English

Jean Bowles, Ph.D., Professor Emeritus(Biology

Phillip Boxer, Ph.D., Emeritus Dean(School of Liberal Arts

Dawn I. Brett, D.S.W., Professor Emeritus(Social Work

Orason Brinker, Ph.D., Associate Professor Emeritus—Mathematical Sciences and Surveying

George M. Brooke, Ph.D., Professor Emeritus–Education

Alfonso Cervantes, Ph.D., Associate Professor Emeritus-Spanish

Milton Chewning, M.S., Professor Emeritus(Aerospace Science

Gerhardt Clementson, Professor Emeritus(Computer and Management Science Jett Conner, Ph.D., Associate Vice President Emeritus, Professor-Political Science

Doris Cost, Ed.D., Associate Professor Emeritus-Marketing

Richard Daetwiler, Th.D., Professor Emeritus–Drug/Alcohol

Margaret L. Dickens, Professor Emeritus-Nursing

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A	В
Academic	Bachelor Degree Requirements, 8
Advising, 26	Behavioral Science, 114
Honesty, 44	Major, 114
Information, 6	Bilingual Education, 137
Probation, 42	Minor, 137
Suspension, 43	Biology Department, 69
Warning, 42	Course Descriptions, 209
Accounting Department, 58	Major, 69
Course Descriptions, 190	Minor, 71
Major, 58	Business, School of, 55
Minor, 61	Bachelor of Arts, 56
Accreditations/Approvals, 7	Bachelor of Science, 56
Adaptive Self-Paced Learning, 188	Business Core, 58
Addiction Studies, Center for, 174	General Studies and Multicultural Requirements, 5
Administration, 352	Programs, 56
Officers, 352	Minors, 56
Trustees, 352	C
Admissions and Registration, 22	C
Additional Programs, 24	Campus, The, 4
Admission of International Students, 25	Map, Back Cover
Admission of Previously Enrolled Students, 24	Recreation, 50
Admission Requirements, 22	Career Services, 45
Applicants Older Than 20, 23	Catalog Selection for Requirements, 10
Applicants Younger Than 20, 22	Certificates of Completion, 7
Application Instructions, 23 College Transfer, 23	Chemistry, 72
High School Concurrent Enrollment Program, 24	Course Descriptions, 212
Metro-Meritus, 25	Major, 73
Summer Semester Only, 24	Minor, 75
Adult Learning Services, 45	Chicano Studies Department, 75
Advanced Placement Examinations, 36	Course Descriptions, 216
Advising (See Academic Advising), 26	Major, 75 Minor, 76
Aerospace Science Department, 122	
Course Descriptions, 191	Child Care Center, Auraria, 4 Child Development Center, 34
Majors, 122	Chinese
Minors, 122	Course Descriptions, 219
African American Leadership Institute, 64	Class Attendance, 44
African American Studies Department, 66	CLEP, 36
Course Descriptions, 197	Civil Engineering Technology, 145
Major, 66	Course Descriptions, 219
Minor, 67	Major, 146
Air Force ROTC Program, 185	Minor, 147
Anthropology, 111	College, The, 4
Course Descriptions, 199	College-Level Examination Program (CLEP), 36
Major, 113	Communication Disorders (Speech Department), 117
Minor, 113	Communication Theory (Speech Department), 116
Application Instructions, 23	Computer Information Systems and Management Science
Army ROTC Program, 85	Department, 58
(See Military Science) Art Department, 67	Course Descriptions, 221
Course Descriptions, 201	Major, 59
Major, 67	Computer Science, 89
Minor, 69	Course Descriptions, 224 Major, 90
Assessment Requirements, 26	Minor, 91
Astronomy	Concurrent Enrollment, 27
Course Descriptions, 208	Conduct, 44
Athletics	Cooperative Education, 38, 189
Course Descriptions, 209	Correspondence Courses, 5
Attainment Examinations, 36	Credit Limitations. 8
Attendance, 44	Costs, 31
Auditing Classes, 28	Counseling Center, 45
Aviation Management, 124	

Awards (See Honors and Awards)

Course Audit Policy, 28	Extended Education, 5
Course Descriptions, 187	Credit Limitations, 8
Course Load, 39	
Credit by Examination, 36	F
Credit for Military Training, 37	Faculty, 355
Credit for Prior Learning, 36	Emeritus, 365
Advanced Placement Examinations, 36	Family Educational Rights and Privacy Act, 52
CLEP (College-Level Examination Program), 36	Field Experience Courses, 189
Credit by Examination, 36	Final Examinations, 44
Departmental Course Examinations, 36	Finance Department, 59
International Baccalaureate, 36	Course Descriptions, 246
Credit for Military Training, 37	Major, 59
Portfolio Assessment, 37	Minor, 62
Crime Information, 54	Financial Aid, 31
Criminal Justice and Criminology Department, 129	Application, 31
Course Descriptions, 226	Grants, 31
Major, 129	Loans, 32
Minor, 131	Scholarships, 32
D	First-Year Program, 34
All the second of the second o	First-Year Seminar
Declaring a Major, 39	Course Descriptions, 248
Degree Requirements, 8	French
For all Bachelor's Degrees, 8 For a Second Degree, 9	Course Descriptions, 248
Degrees and Programs Available, 6	Minor, 94
Dental Insurance, 30	G
Department Course Examinations, 36	
Diplomas and Commencement, 39	Gay, Lesbian, and Bisexual Student Services, 46 General Information, 4
Disabled Student Services, 46	
	Accreditation/Approvals, 7 General Business Minor, 63
E 1	General Studies, 10
Earth and Atmospheric Sciences Department, 76	Arts and Letters, 15
Early Childhood and Elementary Education (See Education)	Historical, 14
Early Childhood Licensure Programs (See Education)	Natural Sciences, 17
Economics Department, 60	Program, 10
Course Descriptions, 230	Social Science, 16
Major, 60	Geography 77
Minor, 60	Course Descriptions, 250
Education, Licensure, 135	Minor, 78
Early Childhood, 136	Geology, 77
Elementary, 137	Course Descriptions, 253
Secondary, 141	Minor, 77
K-12 Art, Physical Education, Music, 141	German
Education, Minors, 137	Course Descriptions, 255
Bilingual, 137	Minor, 95
Early Childhood, 138	Gerontological Services, 157
Parent, 139	Minor, 157
Reading, 181	Grade Appeal, 42
Special, 139	Grades and Notations, 41
Education, Teacher Program, 134	Pass/Fail Option, 42
Course Descriptions, 232 Electrical Engineering Technology, 149	Quality Points, 41 Repeated Courses, 42
Course Descriptions, 237	Graduation Agreement, 39
Major, 149	Grants (See Financial Aid)
Minor, 151	Oranos (See I manetar Aid)
Elementary Education Licensure Program (See Education)	Н
English Department, 79	
Course Descriptions, 240	Health Careers Science Program, 34 Health Care Management, 153
Major, 80	Course Descriptions, 257
Minor, 83	Major, 154
English as a Second Language/Immigrant and Refugee	Minor, 154
Services, 46	Health Center, 47
Entrepreneurship and Creativity, Institute of, 64	Health and Safety Education, 169
Equal Opportunity and Americans with Disabilities Act, 52	Minor, 169
Extended Campus Program, 5	

Health Education Services, 155	L
Course Descriptions, 258	
Health Insurance (See Student Health Insurance)	Land Use, 76
Health Professions Department, 153	Major, 76
Majors, 154	Language and Culture Institute, 35
Minor, 154	Last Grade Stands Policy, 42
High School Upward Bound, 34	Last 12 Hours, 8
History Department, 85	Law (See Legal Studies Minor)
Course Descriptions, 259	Legal Studies Minor, 86
Major, 85	Leisure Studies, 169
Minor, 85	Course Descriptions, 279
Holistic Health and Wellness Education Multi-Minor, 157	Major, 170
Honors and Awards, 40	Minor, 171
Honors Program, 34	Letters, Arts and Sciences, School of, 65
Course Descriptions, 266	Library, 4
Hospitality, Meeting and	Loans (See Financial Aid)
Travel Administration Department, 158	
Course Descriptions, 268	M
Major, 158	Management Department, 59
Minor, 160	Course Descriptions, 291
Human Performance, Sport and	Major, 59
Leisure Studies Department, 162	Minor, 63
	Map, Back Cover
Course Descriptions, 272 Majors, 162	Marketing Department, 60
	Course Descriptions, 293
Minors, 167 Human Services, 171	Major, 60
	Minor, 63
Course Descriptions, 281	Mathematical and Computer Sciences Department, 89
Major, 172 Minor, 174	Course Descriptions, 295
Millor, 1/4	
1	Major, 89 Minor, 91
	Mechanical Engineering Technology, 151
Individualized Degree Program, 7	
Industrial and Technical Studies, 176	Course Descriptions, 299 Major, 151
Course Descriptions, 285	Meteorology Department, 78
Major, 176	
Minor, 178	Course Descriptions, 302
Industrial Design, 180	Major, 79 Minor, 79
Major, 180	
Information Systems, 58	Metro Meritus (Senior Options), 25
Minor, 61	Military Science (Army ROTC), 185
Institute for Entrepreneurship and Creativity, 64	Modern Languages Department, 93
Insurance (See Student Health Insurance)	Course Descriptions, 304
Intercultural Studies	Spanish, 94
Course Descriptions, 289	Major, 94
Interdisciplinary Legal Studies Minor, 86	Minor, 94
Interinstitutional Registration, 27	French, 94
International Education, 25, 47	Minor, 94
Admission of International Students, 25	German, 95
International Baccalaureate Degree, 36	Minor, 95
Language and Culture Institute, 35	Multicultural Course Requirements, 18
Semester-Abroad Programs, 35	Music Department, 97
Study-Abroad Programs, 35	Course Descriptions, 305
International Studies, 35	Major, 97
International and Intercultural Education, Institute for, 118	Minor, 99
Internship Courses, 189	N
	N
l	Native American Studies
Tapanese	Course Descriptions, 310
Course Descriptions, 289	New Student Orientation, 26
Journalism Department, 86	Nontraditional Credit Options, 36
Course Descriptions, 289	Nursing, 155
Major, 86	Course Descriptions, 311
Minor 88	Major, 157

Public Relations Minor, 88

0	Residency Requirements, 31
	Rights and Responsibilities, 44
Office of International Programs and Services, 118	Russian
Officers of Administration,352	Course Descriptions, 327
Omnibus Courses, 188	_
Credit Limitations, 188	S
Organizational Communication (Speech Department)	Scholarships (See Financial Aid)
Orientation, 26	Science
P	Course Descriptions, 327
	Second Degree Requirements, 9
Parent Education, 140	Secondary Education Department (See Education)
Course Descriptions, 312	Self-Paced, 188
Minor, 139	Semester Abroad Programs, 35
Pass-Fail Option, 42	Semester Hours, 39
Philosophy Department, 100	Senior Experience Requirement, 18
Course Descriptions, 312	Senior Options/Metro Meritus, 25
Major, 100	Service Learning Program, 38
Minor, 100	Small Business Institute, 64
Physics Department, 101	Social Work, 114
Course Descriptions, 315	Course Descriptions, 328
Major, 101 Minor, 102	Major, 114
Placement Examinations, 26	Sociology, 111
Policies and Procedures, 44, 52	Course Descriptions, 329
Equal Opportunity and ADA Statement, 52	Major, 111
Family Educational Rights and Privacy Act, 52	Minor, 112
Student Right-to-Know and Campus Security Act, 54	Spanish, 96
Political Science Department, 103	Course Descriptions, 333
Course Descriptions, 319	Major, 96
Major, 103	Minor, 94
Minor, 104	Special Education (See Education)
Prelaw, 103	Special Programs, 34
Public Administration, 104	Speech Communications Department, 116
Urban Studies Program, 105	Course Descriptions, 336
Portfolio Assessment, 37	Major, 116
Post-Secondary Enrollment Options, 25	Minor, 118
Practicum, 189	Speech Education (Speech Department)
Preparatory Course Credit Policy, 44	Spring International Language Center at Auraria, 46
Prior Learning, 36	State Colleges in Colorado, The, 352
Professional Studies, School of, 121	Student Activities, 50
Psychology Department, 109	Student Classification, 39
Course Descriptions, 321	Student Development Center, 47
Major, 109	Student Finance Resource Center (SFRC), 47 Student Health Center, 47
Minor, 110	Student Health Insurance, 29
Public Address and Rhetoric (Speech Department)	Mandatory Policy, 29
Publications, 51	Waiver Policy/Deadline, 29
Public Relations Minor (See Journalism)	Voluntary Policy, Part-time Students, 30
	Student Intervention Services, 48
R	Student Life, 50
Radio/Television/Film-Broadcasting (Speech Department)	Student Affairs Board (SAB), 50
Reading Department, 180	Student Problem Action Network (SPAN), 50
Course Descriptions, 326	Student Activities, 50
Minor, 181	Campus Recreation, 50
Real Estate Minor,62	Student Publications, 51
Recreation, 50	Student Publications, 51
Registration, 27	Student Services, 45
Interinstitutional, 27	Student Support Services, 48
Changes, 28	Study Abroad Trips, 35
Repeated Courses, 42	Summer Bridge/Mentoring Programs, 48
Requirements	Surveying and Mapping, 147
Assessment, 26	Course Descriptions, 342
Catalog, 10	Major, 148
for All Bachelor's Degrees, 8	Minor, 148
for a Second Degree, 9	Suspension Policy, 43

Table of Contents, 3

Teacher Education Program, 132

Admission, 134

Approved majors or subject area endorsements, 136

K-12 endorsements, 141

Recommended minors, 137

Technical Communications, 181

Course Descriptions, 344

Major, 182

Minor, 184

Technical and Industrial Administration, 179

Major, 179

Minor, 179

Telecommunications, 118

Course Descriptions, 347

Theatre (Speech Department)

Transcripts of Records, 39

Transfer Center, 27

Transfer Credit Evaluation, 26

Tri-Institutional Student Legal Services, 48

Trustees of the State Colleges in Colorado, 352

Tuition and Fees, 28

Tuition Classification, 28

Tuition and College Service Fees, 29

Tutoring Center, 48

U

Urban Studies, 105

Course Descriptions, 347

Major, 105

Minor, 108

V

Veterans' Services, 48

Veterans Upward Bound, 35

Voluntary Insurance (See Student Health Insurance)

W

Warning/Probation/Suspension Policy, 43

Weekend Addition Program, 5

Women's Services, 49

Women's Studies, Institute for, 118

Course Descriptions, 348

Individualized Degree Program, 119

Minor, 119

Work-Study, 33

Writing Center, 49