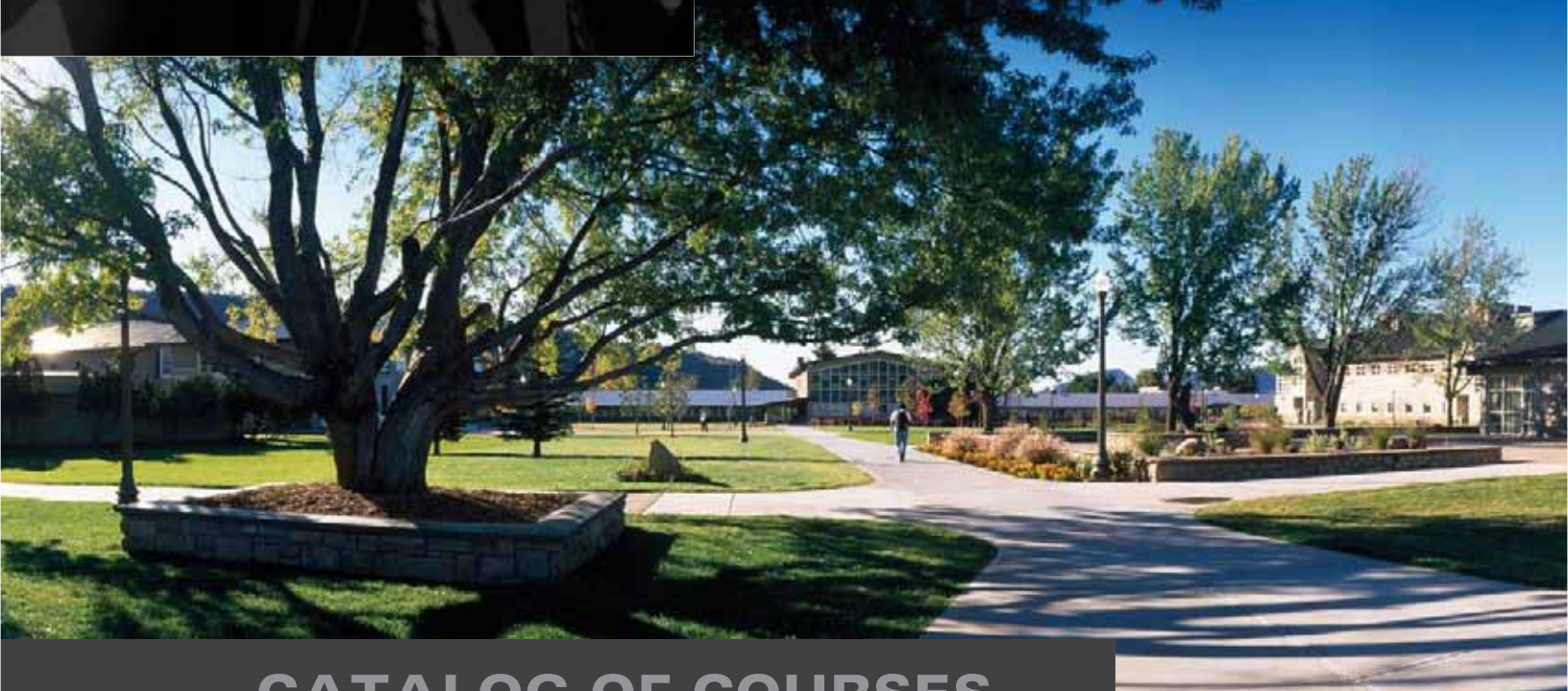




2007 2008



CATALOG OF COURSES

FORT LEWIS COLLEGE DURANGO, COLORADO

WWW.FORTLEWIS.EDU 877-FLC-COLO (TOLL-FREE)



CATALOG OF COURSES

2007-2008

The *Catalog of Courses* outlines, in detail, course requirements needed to complete the various degree programs offered at Fort Lewis College.

Students assume the responsibility of reading the catalog; completing the minimum of 120-128 credits as outlined by the degree program; and maintaining a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major and minor course of study.

To help students plan their degrees, they will be issued a *Guide to Degree Planning...and Beyond* and will be assigned to an academic advisor. However, students assume the ultimate responsibility of knowing and completing all graduation requirements.

For more information, contact:

Registrar's Office
1000 Rim Drive
Durango, CO 81301-3999
Phone: (970) 247-7350
Fax: (970) 247-7598
E-mail: registrar@fortlewis.edu

Admission Office
1000 Rim Drive
Durango, CO 81301-3999
Phone: (970) 247-7184
Fax: (970) 247-7179
E-mail: admission@fortlewis.edu

Website: www.fortlewis.edu

TABLE OF CONTENTS

ACADEMIC CALENDAR	5
OTHER RESOURCES	6
GENERAL INFORMATION	7
BASIC SKILLS REQUIREMENTS	10
GRADUATION REQUIREMENTS	11
STUDENT BILL OF RIGHTS (CRS 23-1-125)	13
TRANSFER, EXAM, AND MILITARY CREDIT	14
CREDIT BY EXAMINATION	18
GENERAL EDUCATION	23
MAJORS, OPTIONS, AND MINORS	29
COURSE LISTINGS AND DESCRIPTIONS	139
ADMINISTRATION AND FACULTY	205
INDEX	217
CAMPUS MAP	222

Prospective students: You have a right to request an annual report of campus crime statistics and security practices. This report includes specific crime statistics relating directly to the Fort Lewis College campus, as well as campus security policies on crime prevention and reporting procedures. The Campus Security Report is available online as part of the Student Handbook at http://www.fortlewis.edu/shared/content_objects/student_affairs/student_handbook.pdf. Your Right to Know information (including graduation rates) is available online at http://www.fortlewis.edu/administrative_services/student_affairs/yrtk.asp. Hard copies of both publications are available in the Student Affairs Office, 170 Berndt Hall or by request to the Vice President for Student Affairs Office, Fort Lewis College, 1000 Rim Drive, Durango, CO, 81301-3999; (970) 247-7331.

Fort Lewis College does not discriminate on the basis of race, age, color, religion, national origin, gender, disability, sexual orientation, political beliefs, or veteran status. Accordingly, equal opportunity for employment, admission, and education shall be extended to all persons. Inquiries concerning Title VII, Title IX, Section 504, and Americans with Disabilities Act (ADA) may be referred to the Equal Opportunity Office, Fort Lewis College, (970) 382-6977, or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Boulevard, Suite 310, Denver, CO, 80204, (303) 844-5695.

FORT LEWIS COLLEGE 2007-2008 ACADEMIC CALENDAR

FALL SEMESTER 2007	
Last day to cancel class schedule	Sunday, August 26
*Classes begin	Monday, August 27
Deadline for adding classes (Census date)	Tuesday, September 11
Deadline for dropping individual classes without a recorded grade (Census date)	Tuesday, September 11
Mid-term grades due	Monday, October 15
Winter Semester advising/registration (for currently-enrolled students):	
• Advising	Monday-Friday, October 22-November 2
• Registration	Monday-Friday, November 5-16
Thanksgiving Break	Monday-Friday, November 19-23
**Last day of classes	Friday, December 7
Final exams	Monday-Friday, December 10-14
Commencement	Saturday, December 15
Final grades due	10:00 a.m., Monday, December 17
WINTER SEMESTER 2008	
Last day to cancel class schedule	Sunday, January 6
*Classes begin	Monday, January 7
Deadline for adding classes (Census date)	Tuesday, January 22
Deadline for dropping individual classes without a recorded grade (Census date)	Tuesday, January 22
Mid-term grades due	Monday, February 25
Spring Break	Monday-Friday, March 3-7
Fall Semester and Summer advising/registration (for currently-enrolled students):	
• Advising	Monday-Friday, March 10-21
• Registration	Monday-Friday, March 24-April 4
**Last day of classes	Friday, April 18
Final exams	Monday-Friday, April 21-25
Commencement	Saturday, April 26
Final grades due	10:00 a.m., Monday, April 28
SUMMER SEMESTER 2008	
MAY SESSION	
Last day to cancel class schedule	Sunday, April 27
*Classes begin	Monday, April 28
Deadline for adding classes (Census date)	Friday, May 2
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, May 2
**Last day of classes	Friday, May 30
Final grades due	10:00 a.m., Monday, June 2
JUNE SESSION	
Last day to cancel class schedule	Sunday, June 1
*Classes begin	Monday, June 2
Deadline for adding classes (Census date)	Friday, June 6
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, June 6
**Last day of classes	Friday, July 4
Final grades due	10:00 a.m., Monday, July 7
JULY SESSION	
Last day to cancel class schedule	Sunday, July 6
*Classes begin	Monday, July 7
Deadline for adding classes (Census date)	Friday, July 11
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, July 11
**Last day of classes	Friday, August 8
Final grades due	10:00 a.m. Monday, August 11

*Also deadline (4 p.m. Fall/Winter; 3:30 p.m. Summer) for submitting petitions for in-state residency and documents for Native American Tuition Waivers.

**Also the deadline (4 p.m. Fall/Winter; 3:30 p.m. Summer) for withdrawing from the term (see the Pro-rata schedule in the Tuition & Fee brochure or www.fortlewis.edu).

OTHER RESOURCES

The Fort Lewis College *Catalog of Courses* is intended to guide students in degree planning. The Fort Lewis College website and numerous department-sponsored publications provide additional information.

ACADEMIC POLICIES AND PROCEDURES

Academic policies and procedures are not catalog-specific. For this reason, the policies and procedures in effect for the coming academic year are published in newsprint form each fall by the Registrar's Office. The document is also available electronically via the Registrar's Office website:

www.fortlewis.edu/academics/registrar/

ADMISSION

All the information prospective students need regarding the admission process can be found at the Office of Admission website:

www.fortlewis.edu/prospective_students/admission/

ASSESSMENT

Information about the college-wide and departmental assessment efforts can be found at the Office of Assessment website:

www.fortlewis.edu/faculty_staff/assessment/

CAMPUS LIFE

Information about student clubs and organizations can be accessed through the College Union website:

www.fortlewis.edu/current_students/student_clubs_orgs/

COMMUNITY AND REGIONAL SERVICES

Information about the Child Development Center, Community Concert Hall, Educational Talent Search, Office of Community Services, Office of Economic Analysis and Business Research, Education Outreach, Events Planning Office, Continuing Education, Fort Lewis College Foundation, Library, Office of Local

Affairs, Professional Associates, San Juan Forum, Small Business Development Center, Center of Southwest Studies, Center for Tourism Research, and Upward Bound can be found by searching the Fort Lewis College website:

www.fortlewis.edu

FINANCIAL AID

Information about financial aid, including the latest edition of the Financial Aid Handbook, can be found on the Office of Financial Aid website:

www.fortlewis.edu/current_students/financial_aid/

STUDENT CONDUCT CODE

The Student Conduct Code is published on the Fort Lewis College website:

www.fortlewis.edu/shared/content_objects/student_affairs//student_handbook.pdf

STUDENT SERVICES

Information about the Academic Advising and Student Success Center, Bookstore, Career Services, Information Technology, Counseling Center, Disability Services, Food Services, Health Center, Housing, Police and Parking Services, Post Office, and Recreational Services can be found on the Fort Lewis College website:

www.fortlewis.edu

TUITION, FEES, AND EXPENSES

Information about tuition, fees, expenses, and payment policies can be found on the Office of Accounting website:

www.fortlewis.edu/administrative_services/accounting_office/

GENERAL INFORMATION

MISSION

Fort Lewis College offers accessible, high quality, baccalaureate liberal arts education to a diverse student population, preparing citizens for the common good in an increasingly complex world.

THE COLLEGE

Fort Lewis College is a four-year, state-assisted, undergraduate institution that offers quality baccalaureate degree programs in the arts and sciences and in the professional areas of education and business. The College has an enduring commitment to develop and maintain its programs at a level equal to those of other outstanding undergraduate institutions in the nation. Fort Lewis College has an approximate enrollment of 4,000 students.

DEGREES OFFERED

Fort Lewis College offers a number of programs leading to the bachelor's degree. The Bachelor of Science degree is offered in biology, chemistry, geology, and physics; the Bachelor of Arts degree is granted in all other four-year programs. In addition, the College offers a program leading to the Associate of Arts degree in agricultural science.

The Fort Lewis College teacher education programs have been approved by the Colorado Department of Education. Licensure programs are offered for the following: early childhood education (birth to 3rd grade); elementary education (grades K-6); secondary education (grades 7-12), in select fields; and K-12, in select fields.

COLLEGE-WIDE LIBERAL EDUCATION OUTCOMES

A liberal arts education encompasses more than specific curricular requirements. The College has defined four liberal education outcomes that students will attain through fulfilling their general education requirements as well as through in-depth study within the major and the experiences available to them at a liberal arts institution. The four liberal education outcomes for Fort Lewis students are:

- **LEARNING AS INQUIRY** – The ability to use modern methods to access, analyze, interpret, and apply a wide range of information, data, and appropriate sources.
- **CRITICAL THINKING AS PROBLEM SOLVING** – The ability to analyze, synthesize, evaluate, and apply information in order to solve complex problems.
- **COMMUNICATION AS INTELLECTUAL CONTRIBUTION** – The ability to contribute to scholarly understanding of a subject by balancing complexity and clarity of argument, clear conceptual organization of evidence, and adaptation to context and audience.
- **ACTION AS RESPONSIBLE APPLICATION OF ACADEMIC LEARNING** – The ability to use all of the above to make positive contributions to one's community and the larger society.

HISTORY

Fort Lewis College is named for Fort Lewis, a U.S. Army Post established in 1878 at Pagosa Springs, Colorado. Two years later, the military post moved to Hesperus, Colorado, a location more central to Indian settlements and pioneer communities. The U.S. government abandoned the site as a military post in 1891 and, in its place, established Fort Lewis as a school offering free education to Native American students.

By 1911, Congress had deeded the Hesperus site to the State of Colorado, which then established a high school of agriculture under the supervision of the State Board of Agriculture. The school began to offer some college-level courses in 1925 and, in 1933, Fort Lewis began to offer college courses exclusively. In 1948, Fort Lewis was officially designated a junior college with its own president.

Fort Lewis moved to the Durango campus in 1956. The first baccalaureate degrees were granted in 1964.

From 1986 to 2002, Fort Lewis was part of the Colorado State University System under the governance of the State Board of Agriculture. An independent board of trustees currently governs Fort Lewis College.

Fort Lewis College continues to honor its historic commitment to Native Americans by offering tuition scholarships to all qualified Native Americans who meet admission requirements. It is the only college in Colorado to do so, and it has for more than 100 years.

LOCATION

Fort Lewis College sits on a mesa-like terrace overlooking Durango and the 13,000-foot peaks of the La Plata Mountains. With a population of approximately 15,000, Durango is the largest community in Southwest Colorado and serves as a hub of commercial activity for a regional population of more than 60,000. Durango's elevation is 6,500 feet; it is surrounded by the Rocky Mountains, yet it is only 50 miles away from the deserts of the Southwest. Durango is about 350 miles from Denver, 200 miles from Albuquerque, and 450 miles from Phoenix.

THE CAMPUS

The distinctive architecture of custom stonework found on the Fort Lewis campus reflects the heritage of Southwest Colorado's Ancestral Pueblo Indians. The backdrop of the rugged San Juan Mountains creates a learning environment of incomparable natural beauty and sets off the architecture that is based on the ancient and contemporary living sites of the first inhabitants of this region.

Academic activities are centered in Chemistry Hall, Education and Business Hall, Center of Southwest Studies, Jones Hall, Art Hall, John F. Reed Library, Theatre Building, Noble Hall, and the academic wing of Berndt Hall. The College Union Building houses a cafeteria, snack bar, post office, bookstore, lounge, and meeting rooms, as well as Student Government offices, the student newspaper, public radio station, and Student Activities.

The on-campus Housing Office, Financial Aid Office, Registrar's Office, Native American Center, Academic Advising and Student Success Center, Career Services, and Health Center are in Miller Student Center.

About 1,580 students live on campus in residence halls and apartment complexes. Physical education and recreation facilities include the Student Life Center, Outdoor Pursuits, a large gymnasium, indoor swimming pool, football stadium, tennis courts, softball fields, soccer fields, track, nature trails, and nearby cross-country ski tracks in winter and golf course in summer.



SEMESTER CALENDAR

Fort Lewis College operates on a semester calendar. The semesters are each 15 weeks. The fall semester generally begins late August or early September and ends mid-December; the winter semester begins in early January and ends late April or early May; the summer semester begins in early May and concludes in early August. The summer semester is traditionally divided into three five-week blocks.

SUMMER PROGRAMS

The summer programs at Fort Lewis College offer a rich variety of courses from the regular curriculum for students who wish to graduate in fewer than four years.

THE FACULTY

Fort Lewis College recruits its faculty from the best colleges and universities in the country. Approximately 90 percent of the tenure track faculty hold the highest degree attainable in their disciplines. Many of Fort Lewis College's faculty have developed national reputations for excellence in teaching, research, and curriculum development. Because Fort Lewis College is primarily an undergraduate institution, faculty members focus on teaching and work closely with students.

ACCREDITATION

Fort Lewis College is accredited by the Higher Learning Commission, a commission of the North Central Association of Colleges and Schools (www.ncaiche.org). Fort Lewis College is also a member of the American Council of Learned Societies and the Council of Public Liberal Arts Colleges. Additional accreditations include:

Music Department

National Association of Schools of Music

Chemistry Department

American Chemical Society

Exercise Science Department

Commission on Accreditation of Athletic Training Education (CAATE)

School of Business Administration

Association to Advance Collegiate Schools of Business International

Education Department

*Teacher Education Accrediting Council (national);
Colorado Department of Education (state)*

Engineering Physics

Accreditation Board for Engineering and Technology (ABET)



ASSESSMENT

To improve instruction and to ensure educational goals, the College regularly assesses students' progress. The College assesses institution-wide and departmental goals by using a wide variety of measures including surveys, student work samples, its own instruments, and nationally standardized tests such as Graduate Record Exam, ETS Major Field Tests, and National Survey of Student Engagement. The College frequently requires students to participate in assessments to help the College improve its academic programs and teaching methods. All departments have assessment processes in place that provide data on student learning in the majors. For more information about assessment, visit www.fortlewis.edu/faculty_staff/assessment/

BASIC SKILLS REQUIREMENTS

COLORADO BASIC SKILLS ASSESSMENT POLICY

Degree-seeking students admitted since Fall 2001 must fulfill the requirements of Colorado Basic Skills Assessment Policy (CRS 23-1-113). The policy requires students to be assessed at matriculation to determine if they are college-level in reading, writing, and mathematics. Approved assessments are the ACT, the SAT I, and Accuplacer. The Colorado Basic Skills Policy is administered by the New Student Advising and Registration Office. Students who do not submit the documentation required for Basic Skills Assessment as specified by the New Student Advising and Registration Office will have a hold placed on their academic records.

There are three assessments possible in each competency area: exempt, college-level, and remedial. Students are exempt from all assessment if they already have earned a bachelor's degree or a transfer-oriented associate's degree.

Students who are assessed as college-level in reading, writing, or mathematics are reported to the Department of Higher Education as not needing remediation in the relevant competency area. Students who are college-level in a competency area do not need to take further action under the policy.

Students are exempt in assessment in reading if they have earned:

- 1) a C- or better in college composition;
- 2) a C- or better in a college preparatory reading course;
- 3) a documented reading disability.

Students are exempt from assessment in writing if they have earned:

- 1) a C- or better in college composition;
- 2) a C- or better in a college preparatory writing course;
- 3) a documented writing disability.

Students are exempt from assessment in mathematics if they have earned:

- 1) a C- or better in a college-level mathematics course;
- 2) a C- or better in an intermediate algebra course;
- 3) a documented disability in mathematics. Students who are exempt do not need to take further action under the policy.

Students who are assessed as remedial in reading, writing, or mathematics are reported to the Department of Higher Education as in need of remediation in the relevant competency area. Students who do not meet the ACT, SAT I or Accuplacer minimum scores listed below are required to take the appropriate remedial coursework and earn a grade of C- or higher by the time they earn 30 credits at Fort Lewis College.

COMPETENCY AREA	ACT MINIMUM	SAT 1 MINIMUM	ACCUPLACER MINIMUM
Math	19 in Mathematics	460 in Mathematics	85 in Elementary Algebra
English	18 in English	440 in Verbal	95 in Sentence Skills
Reading	17 in Reading	430 in Verbal	80 in Reading

GRADUATION REQUIREMENTS

GENERAL GRADUATION REQUIREMENTS

Each candidate for graduation must complete a minimum of 120-128 credits (depending on the major), with a minimum cumulative grade point average of 2.0 and a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major and minor course of study.

Candidates for bachelor's degrees must complete three elements in their academic programs: general education requirements, major requirements, and free electives. Many students choose to use electives to complete the requirements for a minor or teacher licensure.

Among the minimum 120 credits required for the degree, 45 credits must be upper-division (300- and 400-level) courses.

A course offered in substitution for a required course or the request that a requirement be waived must be initiated through an appointment with a Registrar's Office representative who, with the student, will initiate the Exception to Graduation Requirements process. The appropriate department chair, school dean, or program director will determine approval.

MAJOR

Each student seeking a baccalaureate degree must select a major area of study for specialization. For a complete list of majors and descriptions, see the "Majors, Minors, and Options" section of this catalog.

DOUBLE MAJOR

A "double major" is defined as two different majors earned simultaneously with the same baccalaureate degree (i.e., both being a Bachelor of Arts or Bachelor of Science degree).

Students may elect to complete concurrently the requirements for two majors. The Petition for Candidacy for a Degree form, which is sent to the student once 80 credits have been earned, must be completed with both majors listed and submitted to the Registrar's Office. Any major or minor additions or changes after submission of the original Petition for Candidacy for a Degree form must be updated in the Registrar's Office. Courses meeting auxiliary requirements may count in meeting curriculum requirements for both majors. Both majors must be completed prior to graduation.

There are restrictions regarding which majors may be taken in combination with other majors and options, as well as restrictions on which majors may be taken in combination with specific minors. These restrictions are specified under the listing of requirements for each major.

Students wishing to complete a different second major after the first major has been completed and conferred must complete a minimum of 30 additional credits, including the major requirements.

MINORS

Minors, though not required for graduation, are offered. Requirements for a minor are described in the "Majors, Minors, and Options" section of this catalog. No more than one course from the major department will count toward any minor. Students with two minors may count no more than one course toward both minors. If a minor is chosen, it must be completed prior to graduation. Minors may not be added after a bachelor's degree has been awarded.

There are restrictions regarding which minors may be taken in combination with specific majors and options, as well as restrictions on which minors may be taken in combination with other minors. These restrictions are specified under the listing of requirements for each minor.

CERTIFICATE PROGRAMS

Certificate programs at Fort Lewis College consist of a specified set of academic courses that focus on a specific topic, representing a coherent and relatively free standing body of knowledge. Successful completion of a certificate signifies the achievement of competence in the specified domain and is recognized by the awarding of a certificate (an official document) from the sponsoring department or program. Completion of certificate programs approved by the College will also be annotated on the official student transcript.

Each certificate program has a designated program director or coordinator, to whom students should direct inquiries. Currently, Fort Lewis College has three approved certificate programs:

- Geographic Information Systems (GIS), directed by Dr. Scott White of the Geosciences Department;
- Heritage Resource Management Certificate Program, coordinated by Dr. Charles Riggs, Department of Anthropology; and
- Professional Certificate in Spanish, directed by Dr. Kathleen Aguilar, Department of Modern Languages.

GRADUATION REQUIREMENTS FOR SECOND BACHELOR'S DEGREE CANDIDATES

Students pursuing a second bachelor's degree after earning the first bachelor's degree must complete a minimum of 30 additional credits at Fort Lewis College. To be recognized, the first degree must be from a regionally accredited institution. General education requirements are waived for those students whose first degree is a Bachelor of Arts or Bachelor of Science. No honors are awarded upon receipt of a second bachelor's degree.

Students who have previously completed a minor while attending any institution (including Fort Lewis College) may return to or attend Fort Lewis College and obtain a major in that area by completing the degree requirements and a minimum of 30 additional credits.



STUDENT BILL OF RIGHTS (CRS 23-1-125)

Colorado colleges and universities are governed by CRS 23-1-125, known as the Student Bill of Rights. The General Assembly directed the Colorado Commission on Higher Education (Commission, below) to implement this legislation. Questions, requests, issues, or concerns about Fort Lewis College's compliance with this law should be directed to the Dean of the Division of Enrollment Services and General Education.

STUDENTS HAVE A RIGHT TO:

- A) A quality general education experience that develops competencies in reading, writing, mathematics, technology, and critical thinking through an integrated arts and science experience.
- B) Students should be able to complete their Associate of Arts and Associate of Science degree programs in no more than 60 credits or their baccalaureate programs in no more than 120 credits unless there are additional degree requirements recognized by the Commission.
- C) A student can sign a two-year or four-year graduation agreement that formalizes a plan for that student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the Commission. [Contact the Dean of the Division of Enrollment Services and General Education for more information about the graduation agreement process and deadlines.]
- D) Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees.
- E) Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education.
- F) Students, upon successful completion of core general education courses, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education.
- G) Students have a right to know if courses from one or more public higher education institutions satisfy the students' degree requirements.
- H) A student's credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferable.

TRANSFER, EXAM, AND MILITARY CREDIT

It is the student's responsibility to notify Fort Lewis College of any and all previously attempted or earned transfer, exam, or military credits in a timely fashion.

TRANSFER OF CREDITS

Courses are generally accepted in transfer to Fort Lewis College if they are regular, college-level academic courses completed with grades of C- or better and completed at a collegiate institution accredited by one of the following regional accrediting agencies:

- New England Association of Schools and Colleges
- Middle States Association of Colleges and Schools
- Higher Learning Commission of the North Central Association of Colleges and Schools
- Northwest Commission on Colleges and Universities
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

Courses that will not transfer include those that are not college level, such as remedial and developmental; non-academic courses such as vocational, career exploration, cooperative education, internships, independent study, and practicums; or courses with grades of D+ or lower or with the grades pass/fail, credit/no credit, or satisfactory/unsatisfactory. However, courses with grades of pass, credit, or satisfactory may be accepted if they are physical education (PE) courses or if the student demonstrates that the course could not be taken under the normal A-F grading mode and the sending institution verifies that the grade awarded is equivalent to a C- or better.

Transfer credits more than 10 years old will not be automatically accepted and require special approval to be applied toward general education, major, auxiliary, or minor requirements.

Courses accepted in transfer become part of the credits completed and are not used in grade point average (GPA) calculations. The Fort Lewis College GPA is based on work completed at Fort Lewis College only.

Lower-division credits are freshman- and sophomore-level credits (courses numbered 100 and 200,

respectively, at Fort Lewis College). Upper-division credits are junior- and senior-level credits (courses numbered 300 or 400, respectively, at Fort Lewis College). Lower- and upper-division designation is based on the transfer institution's lower- and upper-division designation. Course equivalency may be granted for a lower-division course from another college that is an upper-division course at Fort Lewis College, but the course will not count as upper-division credit at Fort Lewis College. Credits earned at a two-year college cannot be used to meet Fort Lewis College's credit requirement in upper-division courses. In cases where a course being transferred does not have a Fort Lewis College equivalent, the course will post with the appropriate departmental prefix and a "T" identifier within the course number (for example, Math T104).

The maximum number of credits that may transfer toward a baccalaureate degree at Fort Lewis College is 90. Within these 90 credits, the maximum number of credits that may transfer from an accredited community/junior college is 60.

TRANSFER POLICIES

TRANSFER OF ASSOCIATE OF ARTS AND ASSOCIATE OF SCIENCE DEGREES FROM A COLORADO PUBLIC INSTITUTION

Fort Lewis College will honor for all admissible students the transfer of an Associate of Arts (A.A.) degree or Associate of Science (A.S.) degree earned from a Colorado public institution authorized to offer such degrees.

With the exception of state-guaranteed general education courses, which will automatically transfer provided the student has earned a grade of C- or higher, Fort Lewis College will evaluate the courses on a student's transcript following its standard policy (see above).

Students who complete an A.A. or A.S. from another Colorado public institution will be waived from any additional lower-division general education requirements at Fort Lewis College, but will be required to complete the upper-division general education requirements (two Education for Global Citizenship courses).

Students who complete an A.A. or A.S. with 60 transferable credits will transfer with junior standing, provided that the student has earned a C- or better in each course. Because all liberal arts and science degrees are designed to be completed in 120 credits, a transfer student who follows the 60-60 transfer guides for Fort Lewis College can finish a four-year degree at the College by taking 60 additional credits. These guides can be found on the Fort Lewis College website:

www.fortlewis.edu/academics/records_office/transfer_links.asp

TRANSFER UNDER STATEWIDE ARTICULATION AGREEMENTS

Statewide articulation agreements between Colorado public community/junior colleges and Fort Lewis College exist in the areas of Accounting, Business, Business Economics, Engineering, and Elementary and Early Childhood Education. Details of the articulation agreements may be viewed via the Colorado Commission on Higher Education website:

www.state.co.us/cche/academic/transfer/agreements/index.html

TRANSFER OF GENERAL EDUCATION

Colorado's state guaranteed general education (gt-Pathways; see General Education, pp. 23-27) courses are designed to allow students to begin their general education courses at one Colorado public higher education institution and later transfer to another without loss of general education credits. Effective Fall 2003, Colorado policy ensures that students who successfully complete a state guaranteed general education course(s) will receive transfer credit(s) to be applied to general education requirements in all majors at all public institutions unless a specific statewide articulation agreement exists.

The State's guaranteed general education program is organized into four categories: communication; mathematics; arts and humanities, history, and social and behavioral sciences; and physical and life sciences. The state general education policy guarantees transfer of 10 state-approved general education courses limited to the number of semester credits allowed in each general education category (below). Guaranteed general education courses will appear on students' transcripts in one of two forms. If a direct equivalent of the guaranteed course taken at another institution

SEMESTER CREDIT HOURS	GENERAL EDUCATION CATEGORIES
6	Communication 1 Introductory Writing course (GCO1) and 1 Intermediate Writing course (GCO2) or 1 Intermediate Writing course (GCO2) and 1 Advanced Writing course (GCO3)
3-5	Mathematics 1 course (GMA1)
Minimum of 15	Arts and Humanities, History, and Social and Behavioral Sciences <ul style="list-style-type: none"> • 2 courses (minimum) from Arts and Humanities: Arts and Expression (GAH1); Literature and Humanities (GAH2); Ways of Thinking (GAH3); Foreign Languages (GAH4) • 1 course (minimum) from History (GHI1) • 1 course (minimum) from Social and Behavioral Sciences: Economic or Political Systems (GSS1); Geography (GSS2); Human Behavior, Culture, or Social Frameworks (GSS3)
7	Physical and Life Sciences 2 courses (minimum). One must have an associated laboratory (GSC1). The second course may be with (GSC1) or without (GSC2) an associated laboratory.

exists in the Fort Lewis College curriculum, it will be posted as that course on students' transcripts for the number of credits actually earned at the other institution. In cases where a course being transferred does not have a Fort Lewis College equivalent, the course will post with the appropriate departmental prefix and a "T" identifier within the course number (for example, Math T104). Students must earn a C-grade or better in each course in order for the course to transfer. Additional information is available at:

www.state.co.us/cche/academic/transfer/index.html

TRANSFER AGREEMENTS AND GUIDES WITH NON-COLORADO COLLEGES

Any student transferring from a regionally accredited collegiate institution with an Associate of Arts (A.A.) or Associate of Science (A.S.) degree will fulfill general education requirements upon the completion of two upper-division Education for Global Citizenship (EGC) courses.

TRANSFER OF DEGREES FROM INTERNATIONAL INSTITUTIONS

All associate and bachelor degrees being transferred from international institutions will be reviewed by the Registrar's Office to determine transferability.

CATALOG IN EFFECT FOR TRANSFER STUDENTS

For academic program purposes, the catalog in effect for graduation requirements for a transfer student is the catalog in effect when the student transfers to Fort Lewis College. Previous catalogs may be used when specified by a particular articulation or transfer guide.

TRANSFER INQUIRY/APPEALS PROCESS

The inquiry/appeals process follows and applies to transfer appeals from Colorado public colleges as well as all other accredited colleges.

The student may appeal:

- A decision regarding the transferability of a specific course(s);
 - A decision regarding the placement of a specific course(s);
 - The institution's failure to provide a transcript evaluation within the designated 30 calendar day period.
1. The appeal must be submitted in writing to the Registrar's Office. The decisions regarding course transferability and/or placement made in the initial transcript evaluation will be binding if the student fails to file a written letter of appeal within 15 calendar days:
 - a. The Registrar's Office and appropriate department chair will review the written appeal submitted by the student.
 - b. The appropriate department chair will have 30 calendar days to review the student's appeal. The Registrar's Office will inform the student in writing of the department's decision on the appeal, including the rationale for that decision. In addition, the student shall be informed in writing about the process for appealing the appeal decision should the student feel that reasonable doubt exists.
 - c. If the Registrar's Office fails to inform the student of the available appeal options, the departmental decision shall be null and void. The student's request prevails and cannot be overturned by any institutional administrator or committee.

2. An opportunity to appeal the first appeal decision:
 - a. The student may appeal the first appeal decision by writing the Office of Academic Affairs at Fort Lewis College. The appeal must be filed within 15 calendar days of the postmark date of the letter notifying the student of the departmental decision. If the student fails to file an appeal within this time period, the original decision shall be binding.
 - b. Fort Lewis College must hear and reach a decision on the appeal within 15 calendar days after the appeal is filed.
 - c. The student will be notified in writing by Fort Lewis College of its decision regarding the transfer appeal and the rationale for the decision. In addition, the institution shall inform the student that the student may appeal the decision by writing the governing board.

3. An opportunity to appeal the institutional appeal decision:
 - a. The student may appeal the institutional decision by writing the Office of Academic Affairs. The appeal must be filed within five calendar days of the postmark date of the letter notifying the student of the institutional decision. If the student fails to file an appeal within this time period, the institutional decision shall be binding.
 - b. The governing board staff shall review and reach a decision on the appeal within five calendar days after the appeal is filed.
 - c. The student will be notified in writing by the governing board of its decision regarding the transfer appeal and the rationale for the decision. In addition, the institution shall inform the student that the student may appeal the decision by writing the Department of Higher Education. The appeal must be filed within five calendar days of the postmark date of letter notifying the student of the governing board's decision.

DEPARTMENT OF HIGHER EDUCATION PROCEDURES FOR RESOLUTION OF STUDENT TRANSFER DISPUTES

The appeals process is to be initiated by the student after all remedies have been exhausted without resolution of the issue at the institutional level.

An appeal is initiated by the student informing the Department of Higher Education in writing of the situation and the reason for the appeal. Complete instructions regarding this level of appeal may be found on the CCHE website:

www.state.co.us/cche/academic/transfer/index.html

CREDIT BY EXAMINATION

INSTITUTIONAL CREDIT BY EXAMINATION

Credit for some courses may be earned through institutional examinations. This procedure is limited to regular catalog courses and may not apply to such courses as special topics, independent study, practicums, or internships.

The student should apply to the appropriate department chair, who may assign a faculty member to administer the exam. The chair will assure that the reason(s) for the examination is legitimate, and, if the course is an advanced one, that the student has the necessary prerequisites.

With the exception of Lib 150, a student may not take a special exam for a course that he or she has already taken in the regular fashion, regardless of the grade earned previously unless it was an audit grade. Additionally, a student may not take a special exam for a course for which he or she is currently registered.

The fee for credit by examination is listed in the current year Tuition and Fee Schedule, and must be paid before the exam is given. A proctoring fee may also be assessed.

EXTERNAL CREDIT BY EXAMINATION

College credit is also awarded for exceptional performance on tests administered by the following external testing agencies. To qualify for college credit based on test performance, the test must be completed prior to taking any collegiate coursework at Fort Lewis College in the same area.

ADVANCED PLACEMENT

Fort Lewis College participates in the Advanced Placement Program of the College Entrance Examination Board. Under this program, outstanding secondary school students may take certain college-level courses in their own high schools. Satisfactory scores on an examination administered and graded by the College Board are forwarded to Fort Lewis College and may serve as a basis for credit and/or advanced placement. For additional information, students should consult their high school counselor or write to the College Entrance Examination Board, Box 592, Princeton, NJ 08550.

ADVANCED PLACEMENT TEST	MINIMUM SCORE REQUIRED FOR CREDIT	FORT LEWIS COLLEGE EQUIVALENCY	
		COURSE TITLE	CREDITS
Art	3	Art 190 Art	6
Art-2D Design	3	Art 190 Art 2D Design	6
Art-3D Design	3	Art 190 Art 3D Design	6
Art-Drawing	3	Art 190 Art – Drawing	6
Art-History	3	Art 262 (GAH1) Art History to the Renaissance	4
		Art 263 (GAH1) Art History from the Renaissance	4
Biology	3	Bio 112 (GSC2) Intro to Organismic & Evol Bio	4
		Bio 190 Biology	2
Chemistry	3	Chem 150 (GSC1) Fund Chem I	4
		Chem 151 (GSC1) Fund Chem II	4
Computer Science A	3	CSIS 106 Intro Prog in Visual Basic	4
		CSIS 190 Computer Science	2
Computer Science AB	3	CSIS 110 Intro to Programming in Java	4
		CSIS 190 Computer Science	2
Economics (Microeconomics)	3	Econ 262 (GSS1) Microeconomics	3
		Econ 190 Economics	3
Economics (Macroeconomics)	3	Econ 272 (GSS1) Macroeconomics	3
		Econ 190 Economics	3
English (Lang and Comp)	3	Engl 191 Language and Composition	3
		Engl 190 Language and Composition	3
English (Lang and Comp)	4	Comp 150 (GCO1) Reading & Writing College	4
		Engl 190 Language and Composition	2
English (Literature/Comp)	3	Engl 191 Literature and Composition	3
		Engl 190 Literature and Composition	3
English (Literature/Comp)	4	Comp 150 (GCO1) Reading & Writing College	4
		Engl 190 Literature and Composition	2
Environmental Science	3	Bio 190 Environmental Science	6
French	3	ML 147 Elementary French I	4
		ML 148 Elementary French II	4
German	3	ML 123 Elementary German I	4
		ML 124 Elementary German II	4
Government and Politics (Comp)	3	PS 190 Government & Politics (Comp)	6
Government and Politics (U.S.)	3	PS 110 (GSS1) US National Government	4
		PS 190 Government and Politics	2
History (European)	3	Hist 160 (GHI1) Survey Western Civ I	3
		Hist 261 (GHI1) Western Civ II	3
History (U.S.)	3	Hist 280 (GHI1) Survey US Hist, 1600-1877	3
		Hist 281 (GHI1) Survey US Hist, 1877-Present	3
History (World)	3	Hist 150 (GHI1) World Civilization I	3
		Hist 151 (GHI1) World Civilization II	3
Human Geography	3	Geog 190 Human Geography	6
Latin	3	ML 109 Intro Latin I	4
		ML 110 Intro Latin II	4
Mathematics (Calculus AB)	3	Math 121 (GMA1) Pre-Calculus	4
		Math 190 Calculus	2
Mathematics (Calculus AB)	4	Math 221 (GMA1) Calculus I	4
		Math 190 Calculus	2
Mathematics (Calculus BC)	3	Math 221 (GMA1) Calculus I	4
		Math 190 Calculus	2
Mathematics (Calculus BC)	4	Math 221 (GMA1) Calculus I	4
		Math 222 (GMA1) Calculus II	4
Music Theory	3	MU 128 Theory & Musicianship I	5
		MU 190 Music Theory	1
Physics B	3	Phys 201 Physics-Non Calc I	4
		Phys 202 Physics-Non Calc II	4
Physics C	3	Phys 217 (GSC1) Physics-Sci & Engr I	5
		Phys 218 Physics-Sci & Engr II	5
Psychology	3	Psyc 157 (GSS3) Intro to Psychology	3
		Psyc 190 Psychology	3
Spanish	3	ML 115 Elementary Spanish I	4
		ML 116 Elementary Spanish II	4
Statistics	3	Math 201 (GMA1) Elementary Statistics	4
		Math 190 Statistics	2

ACT CREDIT

Superior scores on the ACT Assessment Battery also serve as a basis for credit and/or advanced placement. For further information, contact the Office of Admission at (970) 247-7184.

ACT TEST	MINIMUM SCORE AND GRADE REQUIRED	FORT LEWIS COLLEGE EQUIVALENCY	
		COURSE TITLE	CREDITS
Math	ACT score of 29 and grades no lower than B during Junior and Senior years in the same subject	Math 110 (GMA1) College Algebra	4
English		Engl 190 Special Topics	3
Science		Phsc 105 The Physical Sciences	3

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Fort Lewis College has adopted a policy whereby up to a maximum of 24 credits may be granted on the basis of appropriate scores on the general examinations of the College Level Examination Program (CLEP). For further information, contact the Testing Center at (970) 382-6938.

CLEP TEST	MINIMUM SCORE REQUIRED FOR CREDIT	FORT LEWIS COLLEGE EQUIVALENCY	
		COURSE TITLE	CREDITS
Calculus	50	Math 221 (GMA1) Calculus I	4
College Algebra	50	Math 110 (GMA1) College Algebra	4
College Algebra-Trigonometry	50	Math 121 (GMA1) Pre-Calculus	4
College Math	50	Math 105 (GMA1) College Mathematics	3
Pre-Calculus	50	Math 121 (GMA1) Pre-Calculus	4
Trigonometry	50	Math 190 Special Topics	4
U.S. History, Pre-Civil War	50	Hist 280 (GHI1) Survey of US History, 1600-1877	3
U.S. History, Post-Civil War	50	Hist 281 (GHI1) Survey of US History, 1877-Present	3
Western Civilization I	50	Hist 160 (GHI1) Survey of Western Civilization I	3
Western Civilization II	50	Hist 261 (GHI1) Western Civilization II:1350 to Present	3
American Literature	50	Engl 240 (GAH2) Survey of American Literature	4
British Literature	50	Engl 230 (GAH2) Survey of British Literature	4
French Level I	50	ML 147 Elementary French I ML 148 Elementary French II	4 4
French Level II	50	ML 247 (GAH4) Intermediate French I ML 248 (GAH4) Intermediate French II	4 4
Spanish Level I	50	ML 115 Elementary Spanish I ML 116 Elementary Spanish II	4 4
Spanish Level II	50	ML 215 (GAH4) Intermediate Spanish I ML 216 (GAH4) Intermediate Spanish II	4 4
German Level I	50	ML 123 Elementary German I ML 124 Elementary German II	4 4
German Level II	50	ML 223 (GAH4) Intermediate German I ML 224 (GAH4) Intermediate German II	3 3
American Government	50	PS 110 (GSS1) U.S. National Government	4
English Composition with Essay	50	Comp 125 Reading in College Comp 126 (GCO1) Writing in College	3 3
Introductory Psychology	50	Psyc 157 (GSS3) Intro to Psychology	3
Intro to Educational Psychology	50	Psyc 218 Psych Foundations of Psychology	2
Human Growth and Development	50	Psyc 254 Life Span and Human Development	4
Biology	50	Bio 112 (GSC2) Intro to Organismic and Evolutionary Biology Bio 190 Special Topics	4 2
Chemistry	50	Chem 150 (GSC1) Fundamentals of Chem I	4
Introductory Business Law	50	BA 260 Legal Environment of Business	3
Principles of Management	50	BA 301 Management & Organizational Behavior	4
Principles of Microeconomics	50	Econ 262 (GSS1) Principles of Microeconomics	3
Principles of Macroeconomics	50	Econ 272 (GSS1) Principles of Macroeconomics	3
Introductory Sociology	50	Soc 100 (GSS3) Intro to Sociology	4
Humanities	50	GS 190 Special Topics	6

INTERNATIONAL BACCALAUREATE

The international baccalaureate is a comprehensive course of study for academically talented high school students in select high schools throughout the world. The number of credits awarded for successful completion of an IB diploma program will be a minimum of 24 semester credits. If a score of less than 4 is received on an exam, the number of credits granted will be reduced accordingly at the institution's discretion. Questions about the IB program should be directed to International Baccalaureate North America, 475 Riverside Dr, 16th Floor, New York, NY 10115, (212) 696-4464, or IBNA@IBO.ORG.

IB SUBJECT EXAM TITLE	LEVEL OF EVALUATION	EXAM SCORE	FORT LEWIS COLLEGE COURSE TITLE	SEMESTER HOURS
Anthropology	Higher Standard	4 4	Anth 210 (GSS3) (4), Anth 190 (2) No credit	6
Art	Higher Standard	4 4	Art 190 (6) Art 101 (4)	6 4
Biology	Higher Standard	4 4	Bio 112 (GSC2) (4), Bio 113 (4) Bio 190 (3)	8 3
Chemistry	Higher Higher Standard	5 4 4	Chem 150 (GSC1)(4), Chem 151 (GSC1) (4) Chem 150 (GSC1)(4), Chem 190 (2) Chem 190 (3)	8 6 3
Computer Science	Higher Standard	4 4	CSIS 105 (4), CSIS 190 (4) No Credit	8
Design Technology	Higher Standard	4 4	No Credit No Credit	
Economics	Higher Standard	4 4	Econ 190 (6) Econ 190 (3)	6 3
English (A-1)	Higher Standard	4 4	Comp 150 (GCO1) (4), Engl 190 (2) No Credit	6
French (A-1)	Higher Standard	4 4	ML 390 (6) ML 147 (4), ML 148 (4)	6 8
French (B)	Higher Higher Standard	7,6 5,4 4	ML 247 (GAH4) (4), ML 248 (GAH4) (4), ML 390 (3) ML 247 (GAH4) (4), ML 248 (GAH4) (4) ML 147 (4), ML 148 (4)	11 8 8
Geography	Higher Standard	4 4	Geog 271 (GSS2) (4), Geog 190 (2) Geog 271(GSS2) (4)	6 4
German (B)	Higher Standard	4 4	ML 123 (4), ML 124 (4) ML 123 (4)	8 4
History of Europe	Higher Standard	4 4	Hist 160 (GHI1) (3), Hist 261 (GHI1) (3) Hist 190 (3)	6 3
History of the Americas	Higher Standard	4 4	Hist 281 (GHI1) (3), Hist 190 (3) Hist 190 (3)	6 3
History (other)	Higher Standard	4 4	Hist 191 (3), Hist 190 (3) Hist 190 (3)	6 3
Latin	Higher Standard	4 4	ML 109 (4), ML 110 (4) ML 109 (4)	8 4
Mathematics	Higher and Further Higher Higher Standard	5 5 4 4	Math 221 (GMA1) (4), Math 222 (GMA1) (4) Math 221 (GMA1) (4), Math 190 (2) Math 110 (GMA1) (4), Math 190 (2) No Credit	8 6 6
Music	Higher Standard	4 4	MU 190 (6) No Credit	6
Philosophy	Higher Standard	4 4	Phil 141 (GAH3) (4), Phil 190 (2) Phil 190 (3)	6 3
Physics	Higher Standard	4 4	Phys 217 (GSC1) (5), Phys 218 (5) Phsc 105 (3)	10 3
Psychology	Higher Standard	4 4	Psyc 157 (GSS3) (3), Psyc 190 (3) Psyc 157 (GSS3) (3)	6 3
Russian (B)	Higher Standard	4 5	ML 190 (6) ML 190 (6)	6 6
Spanish (A-1)	Higher Standard	4 4	ML 319 (4), ML 390 (2) ML 319 (4)	6 4
Spanish B	Higher Higher Standard	7,6 5,4 4	ML 215 (GAH4) (4), ML 216 (GAH4) (4), ML 319 (4) ML 215 (GAH4) (4), ML 216 (GAH4)(4) ML 115 (4), ML 116 (4)	12 8 8
Theatre	Higher Standard	4 4	Thea 190 (6) Thea 190 (3)	6 3

MILITARY SERVICE CREDIT

Veterans are often allowed credit for previous education. Credit for military experience also may be allowed according to the American Council on Education recommendations. The D.D. 214 form and other relevant information should be submitted to the Fort Lewis College Registrar's Office. The student must make a written request for an evaluation of credits for military service.



GENERAL EDUCATION

Fort Lewis College's commitment to the liberal arts is embodied in its general education program and in its majors in the arts, sciences, humanities, and social sciences. Liberal in liberal arts means "free", freedom from ignorance. A liberal arts education is intended to impart the capacities and values required for responsible citizenship and advancement in the professions and help students develop a commitment to life-long learning. These capacities include breadth of knowledge, the ability to analyze and weigh evidence, open-mindedness, understanding of different cultural perspectives, critical thinking, quantitative reasoning, and communication.

General education is designed to complement the specialization provided by the majors. Exploration of different areas of knowledge and ways of understanding the world combined with the development of competencies in communication, critical thinking, and quantitative reasoning is the primary focus of the lower-division courses in general education. Development of a global perspective and exploration of global issues is the primary focus of the upper-division courses in general education.

gtPATHWAYS – STATEWIDE GUARANTEED GENERAL EDUCATION

As a public Colorado institution, Fort Lewis College participates in the statewide guaranteed transfer general education known as gtPathways. Students who plan to transfer out of Fort Lewis College to another Colorado public institution should follow the gtPathways structure and take statewide guaranteed transfer general education courses at Fort Lewis College. Additional gtPathways information is available at:

www.state.co.us/cche/academic/transfer/index.html

GENERAL EDUCATION REQUIREMENTS

The curricular components of general education at Fort Lewis College are:

LOWER-DIVISION GENERAL EDUCATION

- Communications
- Mathematics
- Arts and Humanities, History, and Social and Behavioral Sciences
- Physical and Life Sciences
- Physical Well-Being

UPPER-DIVISION GENERAL EDUCATION

- Education for Global Citizenship

All courses that fulfill lower-division general education requirements, with the exception of those courses that fulfill the Physical Well-Being requirement, and have earned a minimum grade of C- or better are guaranteed to transfer to other Colorado public institutions of higher education under the State of Colorado gtPathways system.

COMMUNICATION (GCO1 AND GCO2)

The ability to write effectively and read critically underlies professional projects, civic actions, and academic endeavors. Analyzing whom and what to vote for, reading with an open mind about social, economic, and philosophical issues, and developing the competencies to contribute to the world of ideas in the academy and in the workplace are important. Lower-division communication courses provide the foundational work necessary for students to begin to think, read, and write at advanced levels.

Students are required to complete one GCO1 course and one GCO2 course. Students' options for GCO1 (either the Comp 125-126 sequence or the Comp 150 course) are governed by placement policies developed by the Writing Program. Students may not enroll in the GCO2 course until the GCO1 requirement has been satisfied. Students should consult the requirements of their degree programs before selecting a GCO2 course because some programs require completion of a specific GCO2 course.

The Fort Lewis College GCO1 and GCO2 courses listed below have been approved for gtPathways and are guaranteed to transfer to other Colorado public institutions of higher education if successfully completed with a minimum grade of C- or better:

Approved GCO1 courses – one course required

<u>COURSE</u>	<u>CREDITS</u>
Comp 126 Writing in College (Completion of Comp 125 with a C- or higher is required to enroll in Comp 126)	3
Comp 150 Reading and Writing in College	4

Approved GCO2 courses – one course required

<u>COURSE</u>	<u>CREDITS</u>
Comp 250 Academic Inquiry and Writing	4
Comp 252 Professional and Technical Writing	3
Comp 253 Action Research	3
Engl 268 Reading Texts/Writing Texts	4
Hist 250 Historical Composition	4

MATHEMATICS (GMA1)

Mathematics underlies modern technology, is essential to understanding and critically examining public policy, and is a powerful tool for many disciplines. Pattern recognition, generalization, abstraction, problem solving, careful analysis, and rigorous quantitative argument are important to all well-educated citizens and are the foundation of many professions.

Students must complete one GMA1 course. Students' options for this requirement are determined by placement policies developed by the departments that offer GMA1 courses. Students should consult the requirements of their degree programs before selecting an GMA1 course because some programs require completion of a specific GMA1 course.

The Fort Lewis College GMA1 courses listed below have been approved for gtPathways and are guaranteed to transfer to other Colorado public institutions of higher education if successfully completed with a minimum grade of C- or better:

Approved GMA1 courses – one course required

<u>COURSE</u>	<u>CREDITS</u>
BA 253 Business Statistics	4
ES 242 Testing and Statistics	3
Math 105 College Mathematics	3
Math 110 College Algebra	4
Math 121 Pre-Calculus	4
Math 201 Elementary Statistics	4
Math 210 Survey of Calculus	4
Math 221 Calculus I	4
Math 222 Calculus II	4
Math 223 Calculus III	4

ARTS AND HUMANITIES, HISTORY, AND SOCIAL AND BEHAVIORAL SCIENCES (GAH, GHI, AND GSS)

Arts and Humanities courses (GAH) help students recognize the different ways in which humans have perceived their world, deepen their understanding of how social, cultural, linguistic, religious, philosophical, and historical circumstances shape the human environment, and explore fundamental questions of value, meaning, and modes of expression.

History courses (GHI) involve students in analytical, chronological study of significant human experiences. Through the study of a specific aspect of the human experience students will learn the interpretive and analytical methods necessary to build accounts of the past and explore how alternative analytical perspectives can create different narratives of the past.

Social and Behavioral Science courses (GSS) help students acquire a foundational understanding of the social sciences while gaining insight into contemporary issues and problems.

Students are required to complete two Arts and Humanities courses, one History course, and one Social and Behavioral Science course. If, after completing the four required courses, students have not earned a minimum of 15 credits, they must take an additional course from the Arts and Humanities, History, or Social Science categories. Students' options to take modern language courses to fulfill the Arts and Humanities requirements are determined by placement policies developed by the Modern Languages Department. Students should consult the requirements of their degree programs before selecting Arts and Humanities,

History, and Social and Behavioral Science courses because some programs may require completion of specific courses.

The Fort Lewis College GAH, GHI and GSS courses listed below have been approved for gtPathways and are guaranteed to transfer to other Colorado public institutions of higher education if successfully completed with a minimum grade of C- or better.

Approved GAH Courses – minimum of two courses required

<u>COURSE</u>	<u>CREDITS</u>
Art 262 Art History I	4
Art 263 Art History II	4
Engl 116 Introduction to Mass Communications	4
Engl 128 Bible as Literature	4
Engl 174 African-American Literature	4
Engl 175 Women's Literature	4
Engl 176 Native American Literature	4
Engl 177 U.S. Latina/o Literature	4
Engl 180 Literature of the Environment	4
Engl 217 Media Literacy	4
Engl 221 Classical Literature	4
Engl 230 Survey of British Literature	4
Engl 240 Survey of American Literature	4
Engl 265 Semantics	4
Engl 270 History of Film	4
Engl 280 Literature of the Southwest	4
GS 101 Human Heritage I	4
GS 102 Human Heritage II	4
ML 215 Intermediate Spanish I	4
ML 216 Intermediate Spanish II	4
ML 223 Intermediate German I	3
ML 224 Intermediate German II	3
ML 235 Intermediate Japanese I	4
ML 236 Intermediate Japanese II	4
ML 247 Intermediate French I	4
ML 248 Intermediate French II	4
Mu 101 The Musical Experience	3
Mu 102 Blues/Jazz/Rock	3
Mu 120 Fundamentals of Music	3
Phil 141 Introduction to Philosophy	4
Phil 251 Moral Philosophy	4
Thea 101 Introduction to Theatre	4
Thea 126 Introduction to the Dance	4
Thea 240 Ancient and Classical Theatre	4

Approved GHI Courses – minimum of one course required

<u>COURSE</u>	<u>CREDITS</u>
Hist 140 Survey of African History I	3
Hist 141 Survey of African History II	3
Hist 150 World Civilization I	3
Hist 151 World Civilization II	3
Hist 160 Survey of Western Civilization I	3
Hist 170 Survey of East Asian Civilization I	3
Hist 171 Survey of East Asian Civilization II	3
Hist 181 U.S./S.W. Environmental History (Same course as SW 181)	3
Hist 261 Western Civ II: 1350-Present	3
Hist 262 Tolerance/Persecution in the Middle Ages	4
Hist 263 Medieval Life – Modern Film and Literature	4
Hist 270 Colonial Latin America	3
Hist 271 Latin America Since Independence	3
Hist 280 Survey of U.S. History, 1600-1877	3
Hist 281 Survey of U.S. History, 1877-Present	3
SW 131 Southwest History and Culture	3
SW 181 U.S./S.W. Environmental History (Same course as Hist 181)	3

Approved GSS Courses – minimum of one course required

<u>COURSE</u>	<u>CREDITS</u>
Anth 151 Introduction to Anthropology	4
Anth 201 Introduction to Archaeology	4
Anth 210 Intro. to Sociocultural Anthropology	4
Anth 215 Magic and Religion	4
Anth 217 Cultural Images of Women and Men	4
BA 103 The U.S. Business System	3
BA 271 Principles of International Business	3
Econ 262 Principles of Microeconomics	3
Econ 272 Principles of Macroeconomics	3
ED 222 Education: Global Perspectives	3
Geog 271 World Regional Geography	4
PS 101 Introduction to Political Science	4
PS 110 U.S. National Government	4
PS 120 State and Local Government	4
PS 205 Environmental Politics	3
PS 280 Introduction to Comparative Politics	4
Psyc 157 Introduction to Psychology	3
Soc 100 Introduction to Sociology	4
Soc 279 Ethnicity, Gender and Class in the SW	4
SW 280 Native Americans in the Modern World	4
WS 101 Intro. to Gender & Women's Studies	4

PHYSICAL AND LIFE SCIENCES (GSC1 AND GSC2)

Through Physical and Life Science courses students will gain an understanding of the scientific viewpoint and method and gain insights into the impacts of science and technology on society.

Students are required to complete two Physical and Life Science courses. One of these courses must be a science with a lab (GSC1). The second course may be from either the GSC1 (science with a lab) or GSC2 (science without a lab) lists. Students' options for this requirement are determined by placement policies developed by the departments that offer GSC1 and GSC2 courses. Students should consult the requirements of their degree programs before selecting their Physical and Life Science courses because some programs require completion of specific GSC1 and GSC2 courses.

The Fort Lewis College GSC1 and GSC2 courses listed below have been approved for gtPathways and are guaranteed to transfer to other Colorado public institutions of higher education if successfully completed with a minimum grade of C- or better.

Approved GSC1 courses – one science course must be from the following list

<u>COURSE</u>		<u>CREDITS</u>
Ag 101	Introductory Animal Science	4
Anth 236	Intro. to Biological Anthropology	4
Bio 105	Issues in Genetic Engineering	4
Bio 110	Modern Biological Issues	4
Bio 234	Human Physiology	3
Bio 250	Ecology of the Southwest (Same course as SW 250)	4
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Geol 107	Earth Systems Science	4
Geol 113	Physical Geology	4
Phsc 106	The Physical Sciences	4
Phsc 206	Introduction in Astronomy	4
Phys 217	Physics for Science & Engineering I	5
SW 250	Ecology of the Southwest (Same course as Bio 250)	4

Approved GSC2 Courses – the second science course may be from either the GSC1 or GSC2 list

<u>COURSE</u>		<u>CREDITS</u>
Ag 180	Sustainable Agriculture	3
Ag 203	Introduction to Medicinal Crops	3
Bio 112	Intro. to Organismic & Evolutionary Biology	4
Chem 123	Chemistry for Consumers	3
Geol 150	Geology of the Southwest	3
Geol 170	Earth Shock	3
Geol 180	Introduction to Oceanography	3
Phsc 205	Introduction to Astronomy (no lab)	3

PHYSICAL WELL-BEING (ES 100 OR PE ACTIVITY)

The Physical Well-Being component educates students in the benefits and joys of physical activity, emphasizing how physical well-being enhances overall quality of life. In the Fitness and Wellness (ES 100) course, students learn how principles of fitness and wellness contribute to the development of an active, healthy lifestyle and contribute to positive, productive citizenship. The PE Activity courses are designed to help students improve their physical fitness or explore new physical activities.

Students must complete one course – either ES 100 (no other ES-prefix course may be substituted) or a PE Activity. With the exception of students who transfer in an Associate of Arts or Associate of Science degree, completion of either ES 100 or a PE Activity course is required for graduation. This is an institution-specific general education requirement. As such, these courses are not required to be approved for gtPathways. They are not guaranteed to transfer.

EDUCATION FOR GLOBAL CITIZENSHIP

Education for Global Citizenship (EGC) courses help students develop an awareness of global relationships and engage in critically analyzing global problems or topics using knowledge from multiple disciplines and diverse cultural perspectives. Because Educational for Global Citizenship courses are the capstone experience of general education, students are expected to demonstrate advanced skills in critical thinking and communication.

Students must complete two EGC courses. *These courses may not be used to fulfill any major or minor requirements.* Preparation of a portfolio based on a study abroad experience sponsored by the Fort Lewis College International Programs Office may be used to fulfill one of the course requirements. Details on the portfolio process are available at that office.

SUMMARY OF GENERAL EDUCATION

GENERAL EDUCATION REQUIREMENT	CREDITS*
Communication GCO1 (one course required)	3-4
Communication GCO2 (one course required)	3-4
Mathematics GMA1 (one course required)	3-4
Arts and Humanities, History, and Social and Behavioral Sciences (If the four required courses do not add up to 15 or more credits, student must take an additional course.)	
Arts and Humanities (two courses required)	6-8
History (one course required)	3-4
Social and Behavioral Sciences (one course required)	3-4
Physical and Life Sciences	
Science with a Lab (GSC1) (one course required)	4
Science with or without a Lab (one additional GSC1 course or GSC2 course)	3-4
Physical Well-Being (one course required)	1
Education for Global Citizenship (two courses required)	6-8

*Some of the lower-division courses that meet general education requirements may also count for major or minor requirements. See specific programs for more information.

GENERAL EDUCATION PROGRAMS

FRESHMAN MATHEMATICS PROGRAM

Course listings for basic skills (TRS) mathematics courses begin on page 200.

Course listings for college-level mathematics courses begin on page 177.

Director – Amy K. Getz
Mathematics Department Liaison – Vesta M. Coufal
Visiting Instructors – Cameron I. Cooper, Amy K. Getz, Leslie Goldstein, Mary Kay Stewart, Kathryn Wellborn, and Sherri M. Wilson

The Freshman Mathematics Program is responsible for instruction for basic skills and beginning college-level mathematics courses that fulfill the GMA1 requirement in general education and for coordination of the Algebra Alcove, one of two mathematics support centers at Fort Lewis College. The mission of the Freshman Mathematics Program is to provide a positive learning experience that helps students connect mathematics to their lives. In the Freshman Mathematics Program, we strive to make mathematics accessible to our students and responsive to their interests and needs.

HUMAN HERITAGE

Course listings for Human Heritage courses begin on page 172.

Coordinator – Susan Palko-Schraa
Professors – Gordon P. Cheesewright and Mary Jean Moseley
Associate Professor – John M. Condie
Visiting Instructors – Pamela S. Arbeeny, Ana M. Hale, Bridget J. Irish

The Human Heritage Program was created in 1992 to advance the College's mission in educating students to live in a multicultural world. The two-part course sequence (GS 101 [AH2] and GS 102 [AH2]) explores broad themes related to human experience across three cultures: Native American, Euro American, and Chinese.

WRITING PROGRAM

Course listings for Basic Skills (TRS) Reading and Writing courses begin on page 200.

Course listings for Composition courses begin on page 156.

Director – Bradley P. Benz
Associate Professors – Nancy K. Cardona and Tina L. Evans
Assistant Professor – Shawn E. Fullmer
Visiting Instructors – Karin L. Becker, Molly C. Costello, Ana N. Hale, Bridget J. Irish, Susan Palko-Schraa, Gretchen A. Treadwell

The Writing Program provides instruction in basic skills reading and writing courses, the required college-level composition courses, and elective writing and speech courses. It also coordinates the Writing Center. Faculty in the Writing Program consider their courses “heirs of the ancient liberal art of rhetoric.” The study of rhetoric began in Greece, about 2,500 years ago, as the art of using language persuasively. Although the original emphasis of rhetoric was on speaking, in the modern era its domain has expanded to encompass writing. The Writing Program teaches students that effective communication is highly situational, requiring students to compose and deliver messages appropriate for the occasion, purpose, and audience.

MAJORS, OPTIONS, AND MINORS



AGRICULTURE

Course listings for Agriculture (AG) begin on page 142.

Department Chair - Sherell Byrd
Professor - Philip E. Shuler
Visiting Instructor - Beth A. LaShell

Several programs of study in agriculture are available for students at Fort Lewis College.

As a cooperative effort between the Agriculture Program and the School of Business Administration, a bachelor of arts degree program is available for those students who are interested in professional careers in the agribusiness sector. See the School of Business Administration "Agricultural Business option" section of this catalog for more information.

A second agricultural option is a two-year program at Fort Lewis College leading to an Associate of Arts degree in Agricultural Science. This program is designed to fill the needs of students pursuing an agricultural career on a farm, ranch, or other agriculture-oriented business. Students may elect to concentrate in animal science, agricultural business, or agronomy.

Students also have the option of developing a student-constructed major leading to a baccalaureate degree. This option is for students who plan to continue in a four-year program and combine agriculture with a second field of study, such as biology, economics, or chemistry, that would lead to a degree in Agricultural Chemistry, Agricultural Science, or Organic Agriculture.

Minors are available in Agriculture and Agroecology/Sustainable Agriculture for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

AGRICULTURAL SCIENCE

REQUIREMENTS FOR AN ASSOCIATE OF ARTS DEGREE IN AGRICULTURAL SCIENCE:

General Education **39**
See pp. 23-27 for General Education requirements.

Note: Students can graduate in this degree with the State of Colorado Pathways requirements for general education.

Specific Agricultural Science Requirements:

Ag 101	Introductory Animal Science	4
Ag 102	Principles of Crop Production	3

Subtotal Specific Departmental Requirements 7

Agricultural Science Electives (at least five courses selected from the following):

Ag 150	Farm Records and Accounts	3
Ag 180	Sustainable Agriculture	3
Ag 202	Weed Management/IPM	3
Ag 203	Introduction to Medicinal Crops	3
Ag 204	Forage Production and Management	3
Ag 235	Soils and Soil Fertility	4
Ag 240	Principles of Animal Nutrition	4
Ag 299	Individualized Study	1-3
(A maximum of 3 credits of Independent Study may count in the major)		
Ag 301	Range Management	4
Ag 325	Beef Science	3
Ag 346	Agricultural Marketing	3
Ag 370	Internship in Agriculture	3
Ag 390	Special Topics (as offered)	3-4

Subtotal Ag Science Electives minimum credits 14

Subtotal Specific Departmental Requirements 21

General Electives 7

Suggested Electives:

Geog 250	Intro to Computer Mapping and GIS
Geog 300	Intermediate GIS: Vector-Based Analysis
Engr 103	Computer Aided Drafting
Engr 205	Surveying I

Courses in Computer Science, Economics, Chemistry, Biology, Business Administration

Agricultural Experience: A student is required to have a minimum of 15 weeks of work experience on a farm, ranch, or other acceptable agricultural business prior to the awarding of the Associate of Arts degree in Agricultural Science. This requirement may also be fulfilled by an approved Ag 370 Internship in Agriculture.

TOTAL REQUIRED FOR GRADUATION **60**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

AGRICULTURE MINOR

REQUIREMENTS FOR A MINOR IN AGRICULTURE:

A student majoring in any discipline other than Agriculture or Agricultural Business may complete a minor in Agriculture upon satisfactorily completing the following requirements:

One of the following:

Ag 101	Introductory Animal Science	4
Ag 102	Principles of Crop Production	3
Ag 180	Sustainable Agriculture	3

Additional courses (select three to five of the following):

Ag 150	Farm Records and Accounts	3
Ag 202	Weed Management/IPM	3
Ag 203	Introduction to Medicinal Crops	3
Ag 204	Forage Production and Management	3
Ag 235	Soils and Soil Fertility	4
Ag 240	Principles of Animal Nutrition	4
TS2T 402	Agricultural Issues in Society	3
Ag 301	Range Management	4
Ag 325	Beef Science	3
Ag 346	Agricultural Marketing	3
Ag 370	Internship in Agriculture	3
Ag 390	Special Topics	3-4

TOTAL REQUIRED FOR AGRICULTURE MINOR 20¹

¹ A minimum of 20 credits is required, six of which must be 300-level or above. Students may concentrate in such areas as general agriculture, animal science, agronomy, or agricultural business.

AGROECOLOGY/ SUSTAINABLE AGRICULTURE MINOR

REQUIREMENTS FOR A MINOR IN AGROECOLOGY/SUSTAINABLE AGRICULTURE:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Agriculture or Agricultural Business may complete a minor in Agroecology/Sustainable Agriculture upon satisfactorily completing the following requirements:

Specific Departmental Requirements:

One of the following three courses:

Ag 101	Introductory Animal Science	4
Ag 102	Principles of Crop Production	3
Ag 180	Sustainable Agriculture	3

One of the following:

Bio 250/SW 250	Ecology of the Southwest or	4
Bio 320	Fundamentals of Ecology	4

One of the following:

Ag 370	Internship in Agriculture or	3
Soc 320	Community Service or	3
Bio 480	Internship in Biology or	3
Ag/Bio 299-Ag/Bio 499	Independent Study	3

Other Departmental Requirements:

Three of the following:

Ag 101	Introductory Animal Science	4
Ag 102	Principles of Crop Production	3
Ag 180	Sustainable Agriculture	3
Ag 202	Weed Management/IPM	3
Ag 204	Forage Production	4
Ag 235	Soils and Soil Fertility	4
Anth 243	Food: Systems of Production	4
Anth 406	Ethnobotany of the Southwest	4
Bio 376	Field Ecology	5
Econ 335	Environmental Economics	4
Geog 250	Intro to Computer Mapping and GIS	4
Geol 401	Natural Resources and the Environment	3
TS2N 406	Water in the West	3
Phil 252	Environmental Ethics	4
Phil 352	Ecology and Morality	4
PS 205	Environmental Politics	3
SW 330	Cowboys, Cattlemen, and Popular Culture	3
SW 135	The Southwest I	3
SW 136	The Southwest II	3

TOTAL REQUIRED FOR AGROECOLOGY/ SUSTAINABLE AGRICULTURE MINOR

19-23

ANTHROPOLOGY

Course listings for Anthropology (ANTH) begin on page 143.

Department Chair - Kathleen S. Fine-Dare
 Professors - Philip G. Duke and Kathleen S. Fine-Dare
 Associate Professor - David L. Kozak
 Assistant Professors - Aaron Lampman, Dawn Mulhern, and Charles Riggs
 Visiting Instructor and Field School Director - Mona C. Charles

Fort Lewis College offers a program of courses leading to the Bachelor of Arts degree with a major in Anthropology. A variety of courses is offered to serve the interests of all students. Courses within the department are suitable as electives in the broad liberal arts tradition and also are designed to fulfill the requirements of those who wish to continue their studies in one of the subfields of the discipline.

The department offers an archaeological field school program and occasional innovative month trips, both on this continent and in Europe. Students of anthropology are encouraged to pursue study of a second language and consider internship and study abroad opportunities.

The Department of Anthropology offers minors in Sociocultural Anthropology and Archaeology for students who are not anthropology majors. Requirements for these minors are listed at the end of this section.

The Department also offers a Certificate in Heritage Resource Management, coordinated by Dr. Charles Riggs. Please contact the coordinator for information on this certificate program.

ANTHROPOLOGY

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ANTHROPOLOGY:

General Education **39**
 See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Anth 151	Introduction to Anthropology	3
Anth 201	Introduction to Archaeology	4
Anth 210	Introduction to Sociocultural Anthropology	4
Anth 236	Introduction to Biological Anthropology	4
Anth 303	Anthropological Debates	4
Anth 370	Research Methods in Anthropology	4
Anth 395	History of Anthropological Thought	4
Anth 496	Senior Capstone Seminar in Anthropology	4

Subtotal Specific Departmental Requirements 31

Subdisciplinary Explorations:

Each student must take one course from each of the following three categories. Two of the three courses must be numbered 300 or above.

1. Archaeology 3-8 credits		
Anth 171	World Archaeology	4
Anth 220	Colorado Archaeology	3
Anth 259	Field Training in Archaeology	4-8
Anth 310	Geoarchaeology	4
Anth 313	Arch of Ancient Greece & Rome	4
Anth 314	Greece: Culture, Archaeology	4
Anth 320	Archaeological Lab Techniques	4
Anth 330	Prehistory of the Southwest	4
Anth 340	Ancient Egypt	3
Anth 341	Prehistory of Europe	4
Anth 348	Prehistory of the Americas	4
Anth 402	Adv Archaeological Lab Techniq	4
Anth 403	Adv Archaeological Field Tech	4-8
Anth 430	Adv Studies, SW Archaeology	4

2. Sociocultural 3-4 credits		
Anth 208	Trad Eco Knowledge & Cult Surv	4
Anth 215	Magic & Religion	3
Anth 217	Cultural Images of Women & Men	4
Anth 243	Food: Systems of Production	4
Anth 350	Ethnology of Mesoamerica	4
Anth 351	Ethnology of Andean So America	4
Anth 355	Anthropology of Gender	4
Anth 356	Ecological Anthropology	4
Anth 365	Language & Culture	4
Anth 371	Ethnology of Amazonian S Amer	3
Anth 388	Ethnology of the Southwest	4
Anth 406	Ethnobotany of the Southwest	4
Anth 450	Adv Research-Latin Amer Anth	3
Anth 455	Adv Research-Anth of Gender	3

3. Biocultural and Applied Anthropology 3-4 credits		
Anth 212	Applied Anthropology	4
Anth 246	Human Biological Variation	3
Anth 357	Medical Anthropology	4
Anth 302	Research in Human Origins	3
Anth 359	Forensic Osteo & Bioarcheology	4
Anth 412	Adv Topics in Applied Anth	4

Anthropology Electives: 6-16
 Students must take any two Anth-prefixed courses not already taken in fulfillment of the above requirements. One of these courses must be numbered 300 or above.

STRONGLY RECOMMENDED:
 At least 4 semesters of a second language.

TOTAL MAJOR REQUIREMENTS 46-61

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ANTHROPOLOGY – SOCIOCULTURAL MINOR

REQUIREMENTS FOR A MINOR IN SOCIOCULTURAL ANTHROPOLOGY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Anthropology may complete a minor in Sociocultural Anthropology upon satisfactorily completing the following requirements:

Anth 210	Introduction to Sociocultural Anthropology	4
Anth 201	Introduction to Archaeology	4
	OR	
Anth 236	Introduction to Biological Anthropology	4
	Two additional courses in sociocultural anthropology, one of which must be numbered 300 or above	6-8
	Additional anthropology electives	4

TOTAL REQUIRED FOR SOCIOCULTURAL MINOR 18-20

Note: No grade of less than C- in any course will be accepted for the minor.

ARCHAEOLOGY MINOR

REQUIREMENTS FOR A MINOR IN ARCHAEOLOGY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Anthropology may complete a minor in Archaeology upon satisfactorily completing the following requirements:

Anth 201	Introduction to Archaeology	4
Anth 210	Introduction to Sociocultural Anthropology	4
	OR	
Anth 236	Introduction to Biological Anthropology	4
	Two additional courses in archaeology, one of which must be numbered 300 or above	6-8
	Additional anthropology electives	4-8
	OR	
Anth 259 or 403,	Archaeological field school	4-8

TOTAL REQUIRED FOR ARCHAEOLOGY MINOR 18-24

Note: No grade of less than C- in any course will be accepted for the minor.

ART

Course listings for Art (ART) begin on page 146.

Department Chair – Amy K. Wendland
 Professor - Susan Moss
 Associate Professors - Michael Freeman and Amy K. Wendland
 Assistant Professors - Kevin Bell and Chad Colby

The Art Program is designed to increase the student’s awareness and understanding of art and its relationship to society within a broad liberal arts background. The art major prepares the student to be a practicing artist, to enter graduate school for further professional schooling, or to teach art at either the elementary or secondary level. The program also seeks to provide art experiences for application to problem solving, the use of leisure time, and to create a fuller and richer visual life. Students, faculty members, and other art professionals have the opportunity to display their works in the art gallery in Art Hall on the Fort Lewis College campus.

A minor in art is available for students majoring in other disciplines. A minor in art history is available for art majors and for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

ART – ART OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART – ART OPTION:

General Education **39**
 See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Art 101	Drawing	4
Art 109	Visual Foundations I	3
Art 110	Visual Foundations II	3
Art 262	Art History I: Ancient World to Middle Ages	4
Art 263	Art History II: Renaissance to Modern World	4
Art 296	Sophomore Seminar	2
Art 385	Contemp. Art: Process, Theory, & Criticism	4
Art 496	Senior Seminar	3

15 credits from the remainder of Art offerings with the exception of Art 373 Art Media/Methods for Teachers 15

Subtotal Specific Departmental Requirements 42

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

ART – BUSINESS ART OPTION

Coordinators - Susan Moss, Professor of Art, and Amy K. Wendland, Associate Professor of Art

The Business Art option is designed to combine training in studio art and art history with business knowledge applicable to a variety of art world work contexts, such as sales galleries or non-profit arts organizations. In addition to preparation for working in these venues, the Business Art option provides an understanding of the business side of being an artist and is appropriate preparation for graduate programs in arts administration.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART – BUSINESS ART OPTION:

General Education **39**
 See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Art 101	Drawing	4
Art 109	Visual Foundations I	3
Art 110	Visual Foundations II	3
Art 262	Art History I: Ancient World to Middle Ages	4
Art 263	Art History II: Renaissance to Modern World	4
Art 296	Sophomore Seminar	2
Art 385	Contemporary Art: Process, Theory, & Criticism	4
Art 496	Senior Seminar	3

An additional 11 credits from the remainder of Art offerings with the exception of Art 373. Art 210 is recommended. 11

Subtotal Specific Departmental Requirements 38

Auxiliary Requirements from Other Departments:

BA 103	The U.S. Business System	3
BA 240	Business Creativity and Innovation	2
BA 339	Selling	3
BA 340	Marketing	4
BA 344	Advertising	3
Econ 262	Principles of Economics	3

One additional course selected from the following:

ACC 225	Financial Accounting	4
BA 205	Small Business Venturing	3
BA 342	Retailing	3
BA 347	Consumer Behavior	3

Subtotal Auxiliary Requirements 21-22

Students may not take more than 30 credits in accounting, business, and economics. A minimum grade of C- must be earned in 300- and 400-level business courses to count toward graduation for the Business Art option.

TOTAL MAJOR REQUIREMENTS **59-60**

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ART – K-12 TEACHING OPTION

Coordinator - Kevin Bell, Assistant Professor of Art

The K-12 Art Teaching option is designed to prepare students to become Colorado licensed K-12 art teachers. This option recognizes that students need to have a broad knowledge of art-making skills and techniques as well as an understanding of art teaching methods and concepts. Because of the specific and diverse demands of the Art Teaching option, careful planning is extremely important. Students choosing this option should consult with the Art Education Advisor as early as possible in their college careers and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

ART 101	Drawing	4
ART 109	Visual Foundations I	3
ART 110	Visual Foundations II	3
ART 210	Intro to Digital Media	3
ART 224	Painting	3
ART 250	Ceramics	3
ART 262	Art History I: Ancient World to Middle Ages	4
ART 263	Art History II: Renaissance to Modern World	4
ART 296	Sophomore Seminar	2
ART 335	Craft Topics	3
ART 373	Art Media/Methods for Teachers	4
ART 496	Senior Seminar	3

Subtotal Specific Departmental Requirements 39

Additional Recommended Department Courses:

ART 201	Figure Drawing	3
ART 213	Sculpture	3
ART 220	Graphic Design	3
ART 243	Photography	3

Auxiliary Requirements from Other Departments:

The following courses may be taken prior to admission to the Teacher Licensing Program:

ED 222	Education: Global Perspectives	3
Psyc 157	Introduction to Psychology	3
Psyc 254	Lifespan Human Development	4

Registration in the following courses requires admission to the Teacher Licensing Program:

ED 322	Foundations of Teaching	4
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
Ed 494	Student Teaching Elementary	6
Ed 495	Student Teaching Secondary	6

Subtotal Auxiliary Requirements 44

Additional Recommended Auxiliary Courses:

ED 377 Technology in Education 2

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., Art 262, Art 263, ED 222). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

ART – GRAPHIC DESIGN OPTION

The graphic design curriculum is dedicated to developing skills necessary to synthesize a broad range of information into compelling, informative, and persuasive visual communication. The program is centrally focused on content, critical thinking, and visual problem solving. Students will become proficient with a variety of digital media platforms, including print, web, and multimedia.

Learning outcomes for graphic design students include:

- Development of visual sensitivity;
- Ability to conceptualize observations;
- Knowledge of a variety of art and graphic design techniques and platforms;
- Familiarity with works of western and non-western art, artistic intentions, movements, and the social context of production and circulation;
- Knowledge and understanding of contemporary art and design ideas;
- Possess the ability to evaluate art, including one's own work;
- Ability to consider audience and context;
- Ability to solve complex communication problems;
- Work collaboratively to solve visual problems.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART – GRAPHIC DESIGN OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Art 101	Drawing	4
Art 109	Visual Foundations I	3
Art 110	Visual Foundations II	3
Art 210	Introduction to Digital Media	3
Art 220	Graphic Design	3

Art 261	Design History & Typography	4
Art 262	Art History I: Ancient World to Middle Ages	4
Art 263	Art History II: Renaissance to Modern World	4
Art 296	Sophomore Seminar	2
Art 320	Intermediate Graphic Design	3
Art 322	Interactive Web Design	3
Art 385	Contemporary Art: Process, Theory, & Criticism	4
Art 420	Advanced Graphic Design	3
Art 496	Senior Seminar	3
Free Studio Electives (additional drawing and/or photography recommended)		6
Subtotal Specific Departmental Requirements		52
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

ART MINOR

REQUIREMENTS FOR A MINOR IN ART:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Art may complete a minor in Art upon satisfactorily completing the following requirements:

Students must complete 22 art credits, including Art 101, 109, 110, and an art history course, and obtain the approval of the art department chair.

TOTAL REQUIRED FOR ART MINOR 22

ART HISTORY MINOR

Coordinator - Michael Freeman, Associate Professor of Art

The minor in Art History provides students in all majors the opportunity to document their studies in this unique discipline. This minor will help students be more competitive in applying to graduate art and art history programs and in entering professional fields related to the study of art history (for example, museum studies, gallery work, architecture, advertising, art marketing, and other art-related professions).

Students who minor in Art History will be required to complete a total of 20-24 credits, with 9-12 credits in upper-division courses. Three courses must be lower-division (two required, and one additional) and three courses must be upper-division (two to three from regular courses, with one optional from additional listings). Students who wish to complete a minor in Art History should consult their advisor and a member of the Art Department.

There are special conditions for different Art Major options:

- Art majors pursuing the Art option who wish to complete an Art History minor must use art studio courses to fulfill elective art credits required by the major and must complete a minimum of 16 credits in art history or other designated courses beyond Art 262 and Art 263.
- Art majors pursuing the Graphic Design option who wish to complete an Art History Minor must complete a minimum of 16 credits in art history or other designated courses beyond Art 262, Art 263, and Art 261.

REQUIREMENTS FOR A MINOR IN ART HISTORY:

Lower-division courses (required):

Art 262	Art History I: The Ancient World to the Middle Ages	4
Art 263	Art History II: The Renaissance to the Modern World	4

Choose one from the following:

Art 261	Design History and Typography	4
Art 265/SW 265	Art History of the Southwest	3
Anth 201	Introduction to Archaeology	4
Engl 270	History of the Film	4

Subtotal lower division 11-12

Upper-division courses (choose 2 from the following):

Art 363	Modern Art History 1863-1945	4
Art 364	Modern Art History 1945-present	4
Art 365	Mesoamerican Art History	3
Art 366	Women, Art, and Visual Culture	4
Art 367	American Art History: Colonial era to the 1930s	3
Art 370	Art History: Topics	3

Additional upper-division courses (choose any one below, or choose a 3rd from the upper division art history course list above):

Anth 313	Arch of Ancient Greece & Rome	4
Anth 314	Greece: Culture, Archaeology	4
Anth 330	Prehistory of the Southwest	4
Anth 340	Ancient Egypt	3
Phil 361	Philosophy of Art	4
Soc 345	Art and Society	4
TS2T 405	Art & Science of the Book	4
TS2R 408	Genius, Knowledge, and Representation	4

Subtotal upper division 9-12

TOTAL REQUIRED FOR ART HISTORY MINOR 20-24

BIOLOGY

Course listings for Biology (BIO) begin on page 151.

Department Chair - Sherell Byrd

Professors - Sherell Byrd, David W. Jamieson, Deborah M.

Kendall, J. Page Lindsey, John L. Ninnemann, Joseph C.

Ortega, and Thomas P. Sluss

Associate Professors - John M. Condie and Catherine P. Ortega

Assistant Professors - Cynthia E. Dott, Ginny Hutchins, and

Julie Korb

Both government and industry have considerable demand for people trained in the biological sciences and for which a bachelor's degree is sufficient. Administrative and professional careers may be found in government service and with a variety of conservation and recreation agencies at both state and federal levels. Laboratory and technical work is available with industry and with several government agencies. Some sales positions, especially with pharmaceutical houses, require a biology background. There is a considerable demand for secondary school teachers with certification in biology. Many positions for biologists require a graduate degree, for which a liberal arts major in biology is an excellent background.

The various biology curricula are designed to meet the different needs of students considering the broad field of biology. Although all of these curricula lead to a Bachelor of Science degree in Biology, there are four options available: General Biology, Environmental and Organismic Biology, Cellular and Molecular Biology, and Biology for Secondary Education.

The General Biology option provides exposure to all the major conceptual areas of biology. It is intended for students wishing to tailor a program to match their interests. It prepares students for professional careers in veterinary medicine or graduate school in a broad area of the biological sciences. It is also recommended for those students who are undecided about specific career goals in biology.

The Environmental and Organismic Biology option provides a broad exposure to the principles and practices of ecology, environmental conservation, and management of natural resources. Thus, this option is particularly valuable for those students who plan to work for the many private firms and state and federal agencies involved in natural resource management and environmental impact assessment. This curriculum also provides appropriate preparation for students interested in graduate study in ecology and environmental science.

The Cellular and Molecular Biology option is designed to prepare students for graduate study in cell and molecular biology or to find employment in the biotechnology and health care industries. Students with this major are highly sought after in forensics technology, pharmaceutical development, and industries involving bioinformatics and gene discovery. This option is ideal for students preparing for post-baccalaureate careers as physicians, physician's assistants, dentists, or in naturopathic medicine.

The Biology for Secondary Education option is designed to prepare students to teach in secondary schools. To obtain requirements for teacher certification, please contact the Teacher Education Department.

A minor in biology is available for students majoring in other disciplines. Requirements for a minor in biology are listed at the end of this section. All minors must be arranged in consultation with the student's biology advisor.

BIOLOGY – CELLULAR AND MOLECULAR BIOLOGY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY – CELLULAR AND MOLECULAR BIOLOGY OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Bio 112	Intro to Organismic and Evolutionary Biology	4
Bio 113	Introduction to Cellular and Molecular Biology	4
Bio 210	Survey of Organismic Diversity	4
Bio 260	Genetics	4
Bio 270	Foundations of Molecular Biology	4
Bio 321	General Physiology	4
Bio 331	Microbiology	4
Bio 342	Embryology & Developmental Biology of the Vertebrates	
	OR	
Bio 456	Cell Physiology	
	OR	
Bio 460	Immunology	4
Bio 455	Cell & Molecular Biology	4
Bio 496	Senior Seminar	2
Bio 497	Senior Thesis	2

Subtotal Specific Departmental Requirements 40

Auxiliary Requirements from Other Departments:

Comp 250	Academic Inquiry and Writing	4
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Org Chem I: Organic Compounds	4

Chem 251	Org Chem II: Biological Chemistry	4
Chem 311	General Biochemistry I	4
Math 121	Pre-calculus	4
Math 201	Elementary Statistics	4

Subtotal Auxiliary Requirements 32

Recommended Electives (for students anticipating application to medical or graduate school): Math 221 Calculus I and Phys 201 and 202, Physics-Non Calculus I and II.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to double majors: Students double-majoring in chemistry-biochemistry and biology-cellular and molecular may take the senior seminar sequence in either chemistry (Chem 496 and Chem 497) or biology (Bio 496 and Bio 497); these students do not have to take both senior seminar sequences.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Cellular and Molecular Biology Option Suggested Course Sequence

<u>FALL FRESHMAN YEAR</u>		<u>WINTER FRESHMAN YEAR</u>	
Bio 112	4	Bio 113	4
Chem 150	4	Chem 151	4
Math 110 ¹	4	Math 121	4
Gen Ed	4	Comp 150	4
Total	16 ²	Total	16
<u>FALL SOPHOMORE YEAR</u>		<u>WINTER SOPHOMORE YEAR</u>	
Bio 210 ³	4	Bio 270 ⁴	4
Bio 260	4	Chem 251 ⁴	4
Chem 250 ³	4	ES 100/PE	1
Comp 250	4	Gen Ed	4
Total	16	Total	13 ²
<u>FALL JUNIOR YEAR</u>		<u>WINTER JUNIOR YEAR</u>	
Bio 321	4	Bio 331	4
Chem 331 ³	4	Math 201	4
Gen Ed	4	EGC	4
Upper Division Elective	4	Upper Division Elective	4
Total	16 ²	Total	16
<u>FALL SENIOR YEAR</u>		<u>WINTER SENIOR YEAR</u>	
Bio 496	2	Bio 497	2
Bio 455 ³	4	Bio 3423 OR Bio 456 ⁴	4
EGC	4	OR Bio 460 ⁴	4
Upper Division Elective	4	Upper Division Elective	8
Total	14 ²	Total	14 ²
TOTAL UPPER DIVISION CREDITS		48	
TOTAL CREDITS		120	

¹ The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will delay this schedule, and placement into a higher course than Math 110 will accelerate it.

² During these semesters students should take additional courses in preparation for biology career, medical school, veterinary, or graduate school. Your biology faculty advisor can help you with the selection of these courses.

³ Course offered fall term only.

⁴ Course offered winter term only.

BIOLOGY – ENVIRONMENTAL AND ORGANISMIC BIOLOGY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY – ENVIRONMENTAL AND ORGANISMIC BIOLOGY OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements:</u>	
Bio 112 Intro to Organismic and Evolutionary Biology	4
Bio 113 Introduction to Cellular and Molecular Biology	4
Bio 206 General Botany	4
Bio 207 General Zoology	4
Bio 260 Genetics	4
Bio 302 Systematic Botany	4
Bio 320 Fundamentals of Ecology	4
Bio 376 Field Ecology	5
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2
<u>Two courses from the following choices:</u>	
Ag 235 Soils & Soil Fertility	4
Ag 301 Range Management	4
Bio 315 Ichthyology	4
Bio 324 Mammalogy	4
Bio 334 Ornithology	4
Bio 470 Wildlife Management	4
Subtotal Specific Departmental Requirements	45
<u>Auxiliary Requirements from Other Departments:</u>	
Chem 150 Fundamentals of Chemistry I	4
Chem 151 Fundamentals of Chemistry II	4
Math 121 Pre-calculus	4
Math 201 Elementary Statistics	4
Comp 250 Academic Inquiry and Writing	4
Chem 250 Organic Chemistry I	4
AND	
Chem 365 Analytical Chemistry II	4
OR	
Geog 250 Intro to Comp Mapping/GIS	4
AND	
Geog 300 Intermediate GIS	3
Subtotal Auxiliary Requirements	27-28
<u>Recommended Electives (to be selected in consultation with student's advisor):</u>	
Bio 305 Entomology	
Bio 331 Microbiology	
Chem 250 Organic Chemistry I	
Chem 365 Analytical Chemistry	
Geog 335 Weather and Climate	
Geog 400 Adv GIS: Raster-based Analysis	
Math 221 Calculus	
Phys 201, 202 Physics Non-Calculus I & II	
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Environmental and Organismic Biology Option Suggested Course Sequence

<u>FALL FRESHMAN YEAR</u>		<u>WINTER FRESHMAN YEAR</u>	
Bio 112	4	Bio 113	4
Chem 150	4	Chem 151	4
Math 110 ¹	4	Math 121	4
GEN ED	4	Comp 150	4
Total	16 ²	Total	16
<u>FALL SOPHOMORE YEAR</u>		<u>WINTER SOPHOMORE YEAR</u>	
Bio 206 OR 207	4	Bio 206 or 207	4
Chem 250 OR Geog 250	4	Bio 260	4
GEN ED	4	Math 201	4
COMP 250	4	GEN ED	4
Total	16	Total	16
<u>FALL JUNIOR YEAR</u>		<u>WINTER JUNIOR YEAR</u>	
One (or two) major choices ³	4	One (or two) major choices ³	4
Chem 365 OR Geog 300	3-4	GEN ED	4
Bio 320	4	Upper Division Elective ⁴	4
GEN ED	4	Total	12 ²
Total	15-16		
<u>JUNIOR YEAR 2ND SUMMER SESSION</u>			
Bio 376 ⁵	5		
<u>FALL SENIOR YEAR</u>		<u>WINTER SENIOR YEAR</u>	
Bio 302	4	Bio 497	2
Bio 496	2	EGC	4
EGC	4	Upper Division Elective ⁴	4
Upper Division Elective ⁴	4	Upper Division Elective ⁴	3-4
Total	14 ²	Total	13-14 ²
TOTAL UPPER DIVISION CREDITS		MINIMUM 45	
TOTAL CREDITS		120	
¹ The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will delay this schedule, and placement into a higher course than Math 110 will accelerate it.			
² During these semesters students should take additional courses in preparation for biology career, medical school, veterinary, or graduate school. Your biology faculty advisor can help you with the selection of these courses.			
³ Students must take a minimum of two courses from the list including Ag 235, Ag 301, Bio 315, Bio 324, Bio 334, or Bio 470.			
⁴ These upper division elective courses may be in biology, recommended electives for a career in biology, or other electives.			
⁵ Bio 376 may be taken in the summer following the junior year if Bio 302 is taken in the fall of the junior year. Students should consult with their faculty advisor about this possibility.			

BIOLOGY – GENERAL BIOLOGY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY – GENERAL BIOLOGY OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Bio 112	Intro to Organismic and Evolutionary Biology	4
Bio 113	Introduction to Cellular and Molecular Biology	4
Bio 206	General Botany	4
Bio 207	General Zoology	4
Bio 260	Genetics	4
Bio 320	Fundamentals of Ecology	4
Bio 321	General Physiology	4
	Other upper-division biology courses, excluding cooperative education and internship	11
Bio 496	Senior Seminar	2
Bio 497	Senior Thesis	2
Subtotal Specific Departmental Requirements		43

Auxiliary Requirements:

Comp 250	Academic Inquiry and Writing	4
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Org Chem I: Organic Compounds	4
Chem 251	Org Chem II: Biological Chemistry	4
Math 121	Pre-calculus	4
Math 201	Elementary Statistics	4
Subtotal Auxiliary Requirements		28

Recommended Courses (suggested for those students anticipating graduate school): Math 221, Calculus I, Phys 201 and 202 Physics - Non Calculus I and II

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

General Biology Option Suggested Course Sequence

FALL FRESHMAN YEAR

Bio 112	4
Chem 150	4
Math 110 ¹	4
Gen Ed	4
Total	16

WINTER FRESHMAN YEAR

Bio 113	4
Chem 151	4
Math 121	4
Comp 150	4
Total	16

FALL SOPHOMORE YEAR

Bio 207	4
Chem 250 ³	4
Math 201	4
Comp 250	4
Total	16

WINTER SOPHOMORE YEAR

Bio 206	4
Chem 251 ⁴	4
ES 100/PE	1
Gen Ed	4
Total	13 ²

FALL JUNIOR YEAR

Bio 260	4
Bio 320	4
Upper Division Elective	4
EGC	4
Total	16

WINTER JUNIOR YEAR

Bio 321	4
Upper Division Electives	8
EGC	4
Total	16

FALL SENIOR YEAR

Bio 496	2
2 Upper Division Biology	8
Total	10 ²

WINTER SENIOR YEAR

Bio 497	2
Upper Division Biology	4
2 Upper Division Elective	8
Total	14 ²

TOTAL UPPER DIVISION CREDITS 48

TOTAL CREDITS 120

¹ The math course that a student will take is determined by a placement test. There are five levels of math that one may enter. Placement into a course lower than Math 110 will delay this schedule, and placement into a higher course than Math 110 will accelerate it.

² During these semesters students should take additional courses in preparation for biology career, medical school, veterinary, or graduate school. Your biology faculty advisor can help you with the selection of these courses.

³ Course offered fall term only.

⁴ Course offered winter term only.

BIOLOGY – BIOLOGY FOR SECONDARY TEACHERS OPTION

The Biology for Secondary Teachers Option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 science teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Biology Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY –BIOLOGY FOR SECONDARY TEACHERS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Bio 112	Intro to Organismic & Evolutionary Biology	4
Bio 113	Intro to Cellular & Molecular Biology	4
Bio 206	General Botany	4
Bio 207	General Zoology	4
Bio 260	Genetics	4
Bio 320	Fundamental of Ecology	4
Bio 321	General Physiology	4
Bio 496	Senior Seminar	2
Bio 497	Senior Thesis	2

Subtotal Specific Departments Requirements 32

Auxiliary Requirements:

Comp 250	Academic Inquiry and Writing	4
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I: Organic Compounds	4
Geol 107	Earth Systems Science	4
Phys 201	Physics Non-Calculus I	4
Math 201	Elementary Statistics	4

Subtotal Auxiliary Requirements 28

TOTAL MAJOR REQUIREMENTS **60**

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Class I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Class II Lab	1
ED 495	Student Teaching Secondary	12

Subtotal Education Requirements 39

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120-126****

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Chem 150, Bio 112, and Math 201). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

BIOLOGY MINOR

REQUIREMENTS FOR A MINOR IN BIOLOGY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Biology may complete a minor in Biology upon satisfactorily completing the following requirements:

Bio 112	Intro to Organismic and Evolutionary Biology	4
Bio 113	Introduction to Cellular and Molecular Biology	4
Bio 206	General Botany	
	OR	
Bio 207	General Zoology	
	OR	
Bio 210	Survey of Organismic Diversity	4
	Two upper division biology courses	6-8

TOTAL REQUIRED FOR BIOLOGY MINOR **18-20**

BUSINESS ADMINISTRATION

Course listings for Business Administration (BA) begin on page 148.

Dean - Thomas C. Harrington

Assistant Dean – Paul T. McGurr

Professors - Kendall A. Blanchard, William B. Dodds, Thomas C. Harrington, and Kenneth A. Hunt

Associate Professors – Richard Gore, Paul J. Herz, Douglas W. Lyon, Frederick H. Mull, Stephanie J. Owings, and Deborah L. Walker

Assistant Professors – Steven M. Crowley, Eric L. Huggins, Paul T. McGurr, Luke T. Miller, J. Brad Reich, Robert J. Sonora, Simon G. Walls, and Suzanne L. Wilhelm

Visiting Professor - Charles J. Yoos, II

Visiting Instructors - Chris Lyon, Stephen Stovall, and Terrence Tannehill

SCHOOL OF BUSINESS MISSION

The School of Business Administration (SOBA) works as a team to create student-focused learning experiences that prepare graduates for a dynamic global environment.

VALUES AND LEARNING OUTCOMES

The School of Business Administration provides high quality undergraduate programs with a commitment to developing a liberally educated and professionally competent student. SOBA's success depends upon maintaining a quality faculty dedicated to teaching and a broad spectrum of discipline based scholarship, contributions to practice, learning and pedagogical research, and current professional experience.

To support the SOBA's mission, the faculty are committed to develop and maintain a curriculum that is responsive to society's needs and to increase learning inside and outside the classroom. The School of Business Administration degree programs are designed to provide a balanced combination of the arts and sciences and professional business education. The learning outcomes of the Bachelor of Arts degree programs offered by the School of Business Administration are designed so that students will:

- Acquire a general understanding of the principles of modern business and organizational practices (Learning as Inquiry);
- Become skilled in the use of analytical tools and techniques for decision making in the business world (Critical Thinking and Problem Solving);

- Acquire the communication and group interaction skills necessary for a business career (Communication);
- Apply academic learning in preparation for a business career in a dynamic global environment (Real World Application).

VISIBILITY AND REPUTATION

The Fort Lewis College School of Business Administration degree programs in Accounting, Business Administration, and Economics (Business Economics option) are accredited by the Association to Advance Collegiate Schools of Business International (AACSB). AACSB International accreditation represents the highest standard of achievement for business schools worldwide. Institutions that earn accreditation confirm their commitment to quality and continuous improvement through a rigorous and comprehensive peer review process that ensures faculty scholarship to advance or apply management knowledge, sufficient resources to support a vibrant and relevant mission, high-caliber teaching and current curricula, graduates that have achieved specified learning outcomes, and meaningful interaction between students and faculty. The Business Club, American Indian Business Leaders, Beta Alpha Psi accounting professional society, Beta Gamma Sigma national business honorary society, FLY AHEAD, Junior Trimester Abroad, Innovative Month, community-based learning, research internships, and class projects are examples of clubs and programs that promote such interactions.

ACCEPTANCE OF TRANSFER CREDITS

It is recommended that students planning to transfer into the Fort Lewis College School of Business Administration do so by the end of their sophomore year. Students must complete their final 30 credits in residence at Fort Lewis College.

Students taking their first two years of work at a junior or community college or at another four-year institution are recommended to take at their institution only those business courses that are taught at the freshman or sophomore (100/200) level at Fort Lewis College.

NON-BUSINESS STUDENTS

Students who are not working toward a baccalaureate degree in business are prohibited from taking business content that will exceed 25 percent of their total program. This provision is in accordance with the accreditation standards of the School of Business.

TRIMESTER ABROAD

The Trimester Abroad courses are offered through the Junior Trimester Abroad (JTA) program and are taught by a Fort Lewis College Business School faculty member in Europe during the winter term. The schedule provides for two five-week sessions with at least two courses offered during each session. Generally, the course offerings include at least one junior-level core business course and other business electives. The dates of the trimester vary, but are scheduled to allow about three weeks of independent travel for those who wish to take advantage of that opportunity.

Costs of this program are kept low through the use of Fort Lewis College faculty and the minimal cost of facilities in Europe. Details for any given year regarding location, cost, climate, travel arrangements, etc., may be obtained from the JTA program faculty.

In addition to the Trimester Abroad program, SOBA faculty provide a number of Innovative Month international courses during the summer terms. These courses are advertised on the Foreign Studies information board in the Education and Business Hall.

ACCOUNTING/BUSINESS/ECONOMICS/ MARKETING MINORS

Requirements for minors in Accounting, Business Administration, Economics, Entrepreneurship and Small Business Management, and Marketing are located alphabetically at the end of the Business Administration Majors and Options section.

THE CURRICULA

The curricula offered by SOBA lead to the Bachelor of Arts degree with a major in Accounting, Business Administration, or Economics. Within the Business Administration major, options are offered in Agricultural Business, Business Administration, Engineering Management, Finance, Information Management, International Business, Management, Marketing, and Tourism and Resort Management. Within the Economics major, options are offered in Business Economics and Economics. Students may select only ONE (1) option within the Business Administration and Economics majors. Students may elect a double or triple major by combining two or more of these three majors.

These majors provide excellent education in business within the broad context of a liberal arts curriculum. The degree programs offer a cross section of a "Common Requirement" of courses, and at least 15 credits within an option of Business Administration. The degree programs are designed to meet the needs of students wishing to continue their education in graduate school or to work in their chosen professional area.

Each candidate for graduation must complete a minimum of 120 credits, with a minimum cumulative grade point average of at least 2.0 and a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major course of study. In addition, a candidate for graduation must complete a minimum of forty-five (45) credits of 300- and 400-level classes that can include both business and non-business courses. For majors in Accounting, Business Administration and Economics, a minimum of C- must be earned in 300- and 400-level Accounting, Business Administration, Computer Science and Information Systems, and Economics courses to count toward graduation. **It is the responsibility of the student to know and complete all graduation requirements.**

Specific requirements are listed on the following pages under each major or option.

Prerequisite Statement: It is important that entering Freshmen complete GMA1 and GCO1 requirements their freshman year. These requirements are highly recommended for many of the 200-level business courses. In addition, ACC 225, ACC 226, BA 253, BA 260, Econ 262, and 272 are prerequisites for 300- and 400-level courses offered by the School of Business Administration. Students with majors offered by the School of Business Administration should complete these courses BEFORE the start of the junior year or substantial delay in graduation may result.

ACCOUNTING

Course listings for Accounting (ACC) begin on page 141.

See Business Administration for faculty listing.

The Accounting major prepares students to embark immediately upon a career as a public, industrial or governmental accountant and provides a foundation in accounting and business administration that will enable them to pursue graduate study. Graduates can expect to work in such areas as management advisory services, income tax, auditing, budgeting, cost accounting, and general accounting.

A STUDENT STUDYING ACCOUNTING MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Intro to Financial Accounting	4
Acc 226	Intro to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Managmnt & Organizatnl Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Sem in Strategic Mngmt	4

Subtotal Common SOBA Requirements 4¹

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
----------	------------------------------------	---

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

Acc 323	Intermediate Accounting I	4
Acc 324	Intermediate Accounting II	4
CSIS 335	Accounting Information Systems	3

Plus a minimum of 13 credits of upper division accounting courses selected from the following:

Acc 370	Topics in Accounting	1-6
Acc 426	Advanced Accounting	4
Acc 430	Income Tax Accounting	3
Acc 431	Income Tax Accounting II	3
Acc 436	Auditing – Theory and Practice	4
Acc 470	Gov 'Not-For-Profit' Accounting	3
Any 300- or 400-level accounting elective, including any Accounting 390.		2-4

Subtotal Other Departmental Requirements 24¹

TOTAL MAJOR REQUIREMENTS 73

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 24 credits used to satisfy the accounting major may not be used to satisfy any other major, minor or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

For information regarding CMA, CPA, and other professional certifications and requirements in states other than Colorado, please see an accounting professor.

Accounting Majors Suggested Course Sequence¹

<u>FRESHMAN FALL SEMESTER</u>		<u>FRESHMAN WINTER SEMESTER³</u>	
Comp 125 or Comp 150	3-4	Comp 126 or Comp 150	3-4
GEN ED (SC1)	3-4	GEN ED (SC2)	3-4
GEN ED (HI) ²	3-4	GEN ED (AH)	3-4
GEN ED (AH)	3-4	Math 110	4
Total Credits	12-16	Ex. Sci.	1
		Total Credits	14-17
 <u>SOPHOMORE FALL SEMESTER</u>		 <u>SOPHOMORE WINTER SEMESTER</u>	
Comp 252	3	ACC 226	4
ACC 225	4	Econ 272 (SS)	3
Econ 262 (SS)	3	BA 260	3
BA 253	4	Free Elective	3
Total Credits	14	Free Elective	3
		Total Credits	16
 <u>JUNIOR FALL SEMESTER</u>		 <u>JUNIOR WINTER SEMESTER</u>	
BA 301	4	ACC 324	4
ACC 323	4	BA 353	4
CSIS 335	4	BA 380	4
BA 340	4	CSIS 322	4
Total Credits	16	Total Credits	16
 <u>SENIOR FALL SEMESTER</u>		 <u>SENIOR WINTER SEMESTER</u>	
ACC 426	4	BA 496	4
ACC 430	3	ACC elective	2-4
EGC	3-4	ACC 436	4
SOBA QR requirement	4	EGC	3-4
Total Credits	14-15	Total Credits	13-16

¹ In order to graduate in four years, the recommended number of credits per semester is 15 credits (8 semesters X 15 credits = 120 credits for graduation).

² There is a specific group of lower level Gen. Ed. Courses. The group contains AH, HI, and SS courses. Students must complete a total of 15 credits in that group with at least 1 course from HI, 2 courses from AH, and 1 from SS (both Econ 262 and 272 will satisfy this SS requirement).

³ By the end of the Freshman year, a student should have completed COMP 150 (or equivalent) and 30 credits.

BUSINESS ADMINISTRATION – AGRICULTURAL BUSINESS OPTION

The Business Administration major - Agricultural Business option integrates agriculture, economics, and business administration to prepare students for professional careers in the agribusiness sector. These include positions in agricultural finance, product development, marketing and distribution, and agribusiness management. Flexibility within this option allows students to concentrate in a specific area of study, including general agriculture, animal science, or agronomy.

A STUDENT STUDYING THE AGRICULTURAL BUSINESS OPTION MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education **39**
See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Department Requirements:

CSIS 322 Management and Information Systems 4

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

Econ 364	Macroeconomics	4
Ag 101	Introductory Animal Science	4
Ag 102	Principles of Crop Production	3
Ag 346	Agricultural Marketing	3

Plus 12 credits from the list below; at least two courses must be taken from each category:

Agriculture:

Ag 150	Farm Records and Accounts	3
Ag 202	Weed Management/IPM	3
Ag 204	Forage Production and Management	3
Ag 235	Soils and Soil Fertility	4
Ag 240	Principles of Animal Nutrition	4
Ag 301	Range Management	4
Ag 325	Beef Science	3
Ag 390	Special Topics	3

Business Administration/Economics:

BA 311	Business Law I	3
BA 312	Business Law II	3
BA 387	Real Estate	4
BA 392	Research Topics	1-3
BA 437	Internship in Business – Ag Business Related	3
Econ 335	Environmental/Resource Economics	4
Econ 361	Managerial Economics	4
Econ 390	Special Topics	4

Subtotal Other Departmental Requirements 26¹

TOTAL MAJOR REQUIREMENTS 75

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

¹ The 26 credits used to satisfy an option in Agricultural Business may not be used to satisfy any other major, minor, or option.

BUSINESS ADMINISTRATION – BUSINESS ADMINISTRATION OPTION

The Business Administration major - Business Administration option, sometimes referred to as "general business," provides a broad base of knowledge for beginning a business career. It enables maximum flexibility in career choice and change throughout one's career. Students are expected to develop a basic understanding of the social, legal, and economic environments of business, including an introduction to international business, organizational behavior, the principles of leadership and organization theory, the quantitative tools of decision-making, and the functional areas of the firm.

Students work with assigned advisors to select elective courses that enhance their particular interest. Emphasis is placed on developing a general background with a well-balanced understanding of business. This program, then, provides a sound undergraduate education for entrance into a professional career or graduate school.

A STUDENT STUDYING THE BUSINESS ADMINISTRATION OPTION MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Intro to Financial Accounting	4
Acc 226	Intro to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Department Requirements:

CSIS 322	Management and Information Systems	4
----------	------------------------------------	---

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

One 300- or 400-level Economics Course	4
----------------------------------------	---

Plus a minimum of 15 credits of 300- or 400-level business administration courses selected from the following three groups (MK, MG, FI), with at least one course from each group:

Group MK: MARKETING

BA 240	Business Creativity and Innovation	2
BA 339	Selling	3
BA 342	Retailing	3
BA 344	Advertising	3
BA 346	Managing Customer Value	4
BA 347	Consumer Behavior	3
BA 348	Public Relations	3
BA 356	Business of Gaming	4
BA 372	Global Business Seminar	4
BA 390	Special Topics in Marketing	1-4
BA 392	Research Topics—Marketing Related	1-3
BA 437	Internship in Business – Marketing Related	3
BA 445	Marketing Strategy and Policy	4
BA 446	Marketing Research	4

Group MG: MANAGEMENT

BA 205	New Business Venturing	3
--------	------------------------	---

BA 271	Fundamentals of International Business	3
BA 302	Human Resource Management	4
BA 308	Office Management	3
BA 311	Business Law I	3
BA 312	Business Law II	3
BA 313	Ethical Issues in Business	3
BA 315	International Law	3
BA 316	Tourism and Recreation Law	3
BA 330	Tourism and Resort Management	4
BA 356	Business of Gaming	4
BA 370	Topics in International Business	1-6
BA 372	Global Business Seminar	4
BA 390	Special Topics in Management	1-4
BA 392	Research Topics - Management Related	1-3
BA/CSIS 402	Electronic Commerce	4
BA 407	Management Consulting	4
BA 437	Internship in Business - Management Related	3
BA 439	Marketing and Management of Services	4
CSIS 352	Project Management	4

Group FI: FINANCE

BA 317	Technical Analysis - Securities	3
BA ² /Econ 382	Money, Banking and Financial Institutions	4
BA 386	Insurance	4
BA 387	Real Estate	4
BA 389	International Finance	4
BA 390	Special Topics in Finance	1-4
BA 392	Research Topics - Finance Related	1-3
BA 437	Internship in Business - Finance Related	3
BA 481	Cases in Financial Management	4
BA 485	Investments and Portfolio Management	4
² Econ 369	Public Finance	4

Subtotal Other Departmental Requirements 19¹

TOTAL MAJOR REQUIREMENTS 68

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

¹ The 19 credits used to satisfy an option in Business Administration may not be used to satisfy any other major, minor, or option within the School of Business Administration.

² May not be used to fulfill the 300- or 400-level Economics course requirement and the finance group requirement simultaneously.

BUSINESS ADMINISTRATION – ENGINEERING MANAGEMENT OPTION

The Business Administration major - Engineering Management option prepares students who can integrate management skills with engineering skills to solve complex problems in an increasingly technical world. It is designed to prepare students for entry-level engineering-related jobs and to be able to move rapidly into supervisory/management positions.

A STUDENT STUDYING THE ENGINEERING MANAGEMENT OPTION MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Other Departmental and Auxiliary Requirements:

BA 302	Human Resource Management	4
CSIS 322	Management Information Systems	4
Engr 103	Computer-Aided Drafting	3
Engr 104	Computer Programming for Scientists & Engineers	3
Engr 217	Statics	3
Engr 221	Dynamics	3
Math 221	Calculus I	4
Math 222	Calculus II	4
Phys 217	Physics for Science and Engineering I	5
Phys 218	Physics for Science and Engineering II	5

Plus choose one of the following 2 options:

General Engineering Option:

Engr 201	Electric Networks I	4
	Plus one of the following:	
Engr 202	Electric Networks II	
	OR	
Engr 317	Mechanics of Materials	3-4

Civil/Surveying Engineering Option:

Engr 205	Surveying I	4
Engr 305	Surveying II	4

Subtotal Other Departmental Requirements 45-46

TOTAL MAJOR REQUIREMENTS 86-87

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120**

**Students may complete this degree within 120 credits, but to do so they must use courses from the major to complete certain General Education requirements (e.g., BA 253, Econ 262). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 120-credit limit. Additionally, students must be aware that the minimal requirements for this major do not fulfill the graduation requirement of 45 upper-division credits. Students must ensure that their free electives include sufficient 300- or 400-level courses to meet this requirement.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – FINANCE OPTION

The Business Administration major - Finance option focuses on those financial activities that affect business, government, and non-profit organizations. Students will be introduced to financial planning and management as they pertain to organizations, to the function of both capital and money markets, and to fund raising in these markets.

Financial theory and practice have changed rapidly in the past 20 years and will probably continue to change at least as rapidly in the immediate future. Therefore, students will be introduced to this constantly evolving theory of finance so that they will be able to evaluate the effectiveness of a firm's financing decisions and investments. Students also will become familiar with the analytical techniques that can be used to seek solutions to a wide range of financial problems.

A STUDENT STUDYING THE FINANCE OPTION MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
----------	------------------------------------	---

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

One 300- or 400-level Economics Course		4
BA 481	Cases in Financial Management	4
BA 485	Investments & Portfolio Mgmt	4

Plus a minimum of seven (7) credits from the following:

BA 317	Technical Analysis - Securities	3
BA 382	Money, Banking and Financial Institutions	4
BA 386	Insurance	4
BA 387	Real Estate	4
BA 389	International Finance	4
BA 390	Special Topics in Finance	1-4
BA 392	Research Topics - Finance Related	1-3
BA 437	Internship in Business - Finance Related	3
² Econ 364	Macroeconomic Theory	4
² Econ 369	Public Finance	4
² Econ 371	International Economics	4

Subtotal Other Departmental Requirements 19¹

TOTAL MAJOR REQUIREMENTS 68

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 19 credits used to satisfy an option in Finance may not be used to satisfy any other major, minor, or option within the School of Business Administration.

² May not be used to fulfill the 300- or 400-level Economics course requirement and the Finance option requirement simultaneously.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – INFORMATION MANAGEMENT OPTION

The Business Administration major - Information Management option integrates information systems and business administration to prepare students for professional careers in the information systems sector. These include positions in systems analysis, business consulting, e-commerce, and information management.

The Information Management option is not intended to prepare students for a programming career; rather, it is designed to prepare students for the management of business information systems. For a more technical approach, students should pursue a degree in Computer Science or Information Systems.

A STUDENT STUDYING INFORMATION MANAGEMENT MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education

39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Department Requirements:

Comp 252	Professional and Tech. Writing	3
----------	--------------------------------	---

Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
CSIS 106 or CSIS 110 (Visual Basic or Java)	4
CSIS 322 Management Information Systems (MIS)	4
CSIS 350 Database Management Systems	4
CSIS 431 Computer Network Administration	4
Plus 4 credits from the following list:	
CSIS 335 Accounting Information Systems	3
CSIS 352 Project Management	4
CSIS 360 Software Engineering I: Systems Analysis	4
CSIS 370 Software Engineering II: Systems Design	4
CSIS 402 Electronic Commerce	4
BA 392 Research Topics—Info Management Related	1-3
BA 437 Internship in Business—Info Management Related	3

Subtotal Other Departmental and Auxiliary Requirements 27¹

TOTAL MAJOR REQUIREMENTS 72

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 27 credits used to satisfy an option in Information Management may not be used to satisfy any other major, minor, or option.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – INTERNATIONAL BUSINESS OPTION

The Business Administration major - International Business option prepares students to enter the exciting and rapidly growing world of international business. Increasingly, businesses find that suppliers and customers may come from anywhere in the world. To better prepare students for a future career in business that will likely require some international proficiency, students in this option take courses to gain competency in at least one foreign language, a cultural and political understanding of the region of the world where that language is dominant, and those special business skills needed to operate effectively in the international environment.

The option is strongly interdisciplinary. A student studying International Business must complete the following requirements:

General Education

39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

<u>Auxiliary Requirement (outside SOBA):</u>	
CSIS 322 Management and Information Systems	4
Subtotal Auxiliary Requirements	4
<u>Other Departmental Requirements:</u>	
A minimum of 15 credits from the following courses: ^{1,2}	
BA 271 Principles of International Business	3
BA 302 Human Resource Management	4
BA 313 Ethical Issues in Business	3
BA 315 International Business Law	3
BA 316 Tourism and Recreation Law	3
BA 370 Topics in International Business	1-6
BA 372 Global Business Seminar	4
BA 389 International Finance	4
BA 390 Special Topics (with Int'l Business emphasis)	1-4
BA 392 Research Topics—Int'l Business Related	1-3
BA 437 Internship in Business - Int'l Business Related	3
BA 499 Independent Study: Semester Abroad	4
Econ 370 Topics in International Economics	1-6
Econ 371 International Economics	4
Econ 390 Special Topics (with Int'l Business emphasis)	1-4
Econ 410 Economics, a Radical Perspective	4
ML 309 Business French	3
ML 350 Spanish for the Professions	4
Subtotal Other Departmental Requirements	15
Plus completion of the following:	
A. International Experience.	
This requirement can be met in several ways:	
1. Participation in a Semester Abroad program.	
2. International Exchange Program in any discipline.	
3. Participation in any summer Innovative Month program that includes an international experience of at least 3 weeks abroad.	
4. Residence abroad—minimum of three months.	
5. Extensive individual travel abroad. Each method requires documentation and approval of the SOBA Dean's Office.	
B. Modern Language Proficiency.	
This requirement can be met in several ways:	
1. Completion of a 200-level modern language course.	
2. Completion of a 100-level modern language course in TWO different modern languages.	
3. Score of 3 or above on an AP modern language exam.	
4. ACTFL proficiency exam score.	
5. Native speaker of a language other than English.	
6. Completion of an intensive language training program.	
Each method requires documentation and approval of the SOBA Dean's Office.	
Subtotal International Experience and/or Modern Language Proficiency	0-12
TOTAL MAJOR REQUIREMENTS	64-76
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

- ¹ The 15 credits used to satisfy an option in International Business may not be used to satisfy any other major, minor or option.
- ² ALTERNATIVE STUDY PROGRAM: Up to 12 credits of the International Business option requirements may be satisfied by successful completion of Study Abroad courses (Accounting, Business Administration or Economics) or exchange program(s) approved by SOBA.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – MANAGEMENT OPTION

The Business Administration major - Management option prepares students for responsible supervisory and management positions in all types of organizations: business, government, and non-profit. Students become familiar with the opportunities and processes of management as they develop skills in planning, organizing, leading, and controlling.

Students in management are introduced to the process of acquiring and using financial, human and physical resources in the pursuit of organizational objectives. Interpersonal relations, leadership, and decision-making are emphasized.

A STUDENT STUDYING THE MANAGEMENT OPTION MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4

Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4
Subtotal Quantitative Reasoning Requirement		4
<u>Auxiliary Requirement (outside SOBA):</u>		
CSIS 322	Management and Information Systems	4
Subtotal Auxiliary Requirements		4
<u>Other Departmental Requirements:</u>		
One (1) 300- or 400-level Economics Course		4
Plus a minimum of 15 credits from the following courses ¹ :		
BA 205	New Business Venturing	3
BA 271	Fundamentals of International Business	3
BA 302	Human Resource Management	4
BA 311	Business Law I	3
BA 312	Business Law II	3
BA 313	Ethical Issues in Business	3
BA 315	International Business Law	3
BA 316	Tourism and Recreation Law	3
BA 330	Tourism and Resort Management	4
BA 356	Business of Gaming	4
BA 370	Topics in International Business	1-6
BA 372	Global Business Seminar	4
BA 390	Special Topics in Management	1-4
BA 392	Research Topics - Management Related	1-3
BA 407	Management Consulting	4
BA 437	Internship in Business - Management Related	3
BA 439	Marketing and Management of Services	4
CSIS 352	Project Management	4
CSIS 402	Electronic Commerce	4
Econ 364	Macroeconomic Theory	4

Subtotal Other Departmental Requirements 19¹

TOTAL MAJOR REQUIREMENTS 68

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 19 credits used to satisfy an option in Management may not be used to satisfy any other major, minor, or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – MARKETING OPTION

The Business Administration major - Marketing option emphasizes the performance of business activities designed to plan, price, promote, and distribute goods and services to satisfy consumer needs and wants. The study of marketing recognizes the large proportion of the consumer dollar allocated to marketing, thus creating vast opportunities for graduates in this field.

Careers in marketing may be pursued in industry, government, and non-profit organizations, in such areas as retailing, purchasing, marketing research, sales, advertising, sales promotion, product management, public relations, physical distribution, and consumer affairs.

A STUDENT STUDYING MARKETING MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4

Subtotal Common SOBA Requirements 41

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
----------	------------------------------------	---

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

One (1) 300- or 400-level Economics Course		4
BA 347	Consumer Behavior	3
BA 445	Marketing Strategy and Policy	4
BA 446	Marketing Research	4

Plus a minimum of 4 credits from the following courses:

BA 240	Business Creativity and Innovation	2
BA 339	Selling	3
BA 342	Retailing	3
BA 346	Managing Customer Value	4
BA 356	Business of Gaming	4
BA 372	Global Business Seminar	4
BA 390	Special Topics in Marketing	1-4
BA 392	Research Topics - Marketing Related	1-3
BA 402	Electronic Commerce	4
BA 437	Internship in Business - Marketing Related	3

BA 439	Marketing and Management of Services	4
Subtotal Other Departmental Requirements		19 ¹
TOTAL MAJOR REQUIREMENTS		68
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

¹ The 19 credits used to satisfy an option in Marketing may not be used to satisfy any other major, minor, or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

BUSINESS ADMINISTRATION – TOURISM AND RESORT MANAGEMENT OPTION

Recent decades have witnessed the phenomenal growth of service industries. The service sector of the economy now accounts for most of the job opportunities. In this region of the country the leading service industry is the tourism industry. A major portion of this industry is located in growing year-round resorts. This industry will continue to grow and serve national and international markets. As it does, it will need future leaders and managers with better education and broader perspectives. The Tourism and Resort Management option addresses this need.

The Business Administration major - Tourism and Resort Management option provides a general understanding of the management challenges and organizational practices of a complex and diverse industry. The use of analytical tools and techniques for decision making, the development of the capacity for critical thought and leadership, and the ability to work with others will be significantly improved by interaction with regional companies through field projects in most courses and a required work experience.

A STUDENT STUDYING TOURISM AND RESORT MANAGEMENT MUST COMPLETE THE FOLLOWING REQUIREMENTS:

General Education **39**
See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:		
Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4

BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4
Subtotal Common SOBA Requirements		41

Quantitative Reasoning Requirement:

Complete one of the following:		
BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
Subtotal Auxiliary Requirements		4

Other Departmental Requirements:

One (1) 300- or 400-level Economics Course		
BA 330	Tourism and Resort Management	4
BA 437	Internship in Bus - Tourism & Resort Mgmt Related	3
BA 439	Marketing and Management of Services	4

Plus one additional course from the following:

BA 302	Human Resource Management	4
BA 316	Tourism and Recreation Law	3
BA 356	Business of Gaming	4
BA 390	Special Topics -- Tourism Related	3-4
BA 407	Management Consulting	4
BA 446	Marketing Research	4

Subtotal Other Departmental Requirements 18-19¹

TOTAL MAJOR REQUIREMENTS 67-68

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 18-19 credits used to satisfy an option in Tourism and Resort Management may not be used to satisfy any other major, minor, or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ECONOMICS

Course listings for Economics (ECON) begin on page 158.

See Business Administration for faculty listing.

The School of Business Administration offers two degree options for students pursuing studies in Economics. Both Economics options prepare students for graduate studies in economics as well as employment in business and finance. The study of economics also provides a good background for students who want to prepare for a career in law. These programs lead to a degree option in either Business Economics or Economics.

ECONOMICS – BUSINESS ECONOMICS OPTION

The Economics major - Business Economics option is designed to provide students with an understanding of economic principles underlying the business world. The option shows the relationships between the study of economics and basic business decision-making both from the standpoint of the individual firm and from the standpoint of business operating in the national and global economy. Students majoring in Business Economics will be prepared to continue graduate study in economics and for employment in government and business.

A STUDENT MAJORING IN BUSINESS ECONOMICS MUST COMPLETE THE FOLLOWING DEPARTMENTAL REQUIREMENTS:

General Education **39**
See pp. 23-27 for General Education requirements.

Major Requirements:

Common SOBA Requirements:		
Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 253	Business Statistics	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 353	Operations Management	4
BA 380	Financial Management	4
BA 496	Senior Seminar in Strategic Management	4
Subtotal Common SOBA Requirements		41

Quantitative Reasoning Requirement:

Complete one of the following:		
BA 346	Managing Customer Value	4
BA 446	Marketing Research	4

BA 485	Investments & Portfolio Mgmt	4
Econ 361	Managerial Economics	4
Math 210	Survey of Calculus	4
Math 221	Calculus I	4
Math 222	Calculus II	4
Math 360	Introduction to Operations Research	4

Subtotal Quantitative Reasoning Requirement 4

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
----------	------------------------------------	---

Subtotal Auxiliary Requirements 4

Other Departmental Requirements:

Econ 356	Microeconomic Theory	4
Econ 364	Macroeconomic Theory	4

Plus any three of the following courses:

Econ 307	Evolution of Economic Thought	4
Econ 310	Economic History of the United States	4
Econ 335	Environment/Resource Economics	4
Econ 361	Managerial Economics	4
Econ 369	Public Finance	4
Econ 371	International Economics	4
BA/Econ 382	Financial Institutions	4
Econ 390/391	Special Topics in Economics	4

Subtotal Other Departmental Requirements 20¹

TOTAL MAJOR REQUIREMENTS 69

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ The 20 credits used to satisfy the Business Economics option may not be used to satisfy any other major, minor, or option within the School of Business Administration.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ECONOMICS – ECONOMICS OPTION

The Economics major - Economics option focuses primarily on economics and is designed to provide students with an understanding of the present economic system and how economics relates to other disciplines and fields of study. The major is designed for students who desire to study economics but do not wish to take all of the common requirement courses prescribed for Business Administration majors. Students majoring in Economics will have the flexibility to pursue minors in other areas as well as preparing for teaching certification. The Economics option is excluded from the AACSB International School of Business Administration accredited degree programs.

STUDENTS MAJORING IN THE ECONOMICS OPTION MUST COMPLETE THE FOLLOWING DEPARTMENTAL REQUIREMENTS:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

BA 253	Business Statistics	4
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
Econ 361	Managerial Economics	4
Econ 356	Microeconomic Theory	4
Econ 364	Macroeconomic Theory	4
Econ 499	Independent Study	2

Plus any three of the following courses:

Econ 307	Evolution of Economic Thought	4
Econ 310	Economic History of the United States	4
Econ 335	Environment/Resource Economics	4
Econ 369	Public Finance	4
Econ 371	International Economics	4
Econ/BA 382	Financial Institutions	4
Econ 390/391	Special Topics in Economics	4

TOTAL MAJOR REQUIREMENTS 36

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Business Administration/Economics Major Suggested Course Sequence¹

<u>FRESHMAN FALL SEMESTER</u>		<u>FRESHMAN WINTER SEMESTER³</u>	
Comp 125 or Comp 150	3-4	Comp 126 or Comp 150	3-4
GEN ED (SC1)	3-4	GEN ED (SC2)	3-4
GEN ED (HI) ²	3-4	GEN ED (AH)	3-4
GEN ED (AH)	3-4	Math 110	4
Total Credits	12-16	Ex. Sci.	1
		Total Credits	14-17
<u>SOPHOMORE FALL SEMESTER</u>		<u>SOPHOMORE WINTER SEMESTER</u>	
Comp 252	3	ACC 226	4
ACC 225	4	Econ 272 (SS)	3
Econ 262 (SS)	3	BA 260	3
BA 253	4	Free Elective	3
Total Credits	14	Free Elective	3
		Total Credits	16
<u>JUNIOR FALL SEMESTER</u>		<u>JUNIOR WINTER SEMESTER</u>	
BA 301	4	BA 353	4
BA 340	4	Major Elective	4
BA 380	4	Major Elective	4
CSIS 322	4	Upper level Econ ³ or	
Total Credits	16	Major Elective	4
		Total Credits	16
<u>SENIOR FALL SEMESTER</u>		<u>SENIOR WINTER SEMESTER</u>	
Free Elective	4	BA 496	4
EGC	4	Major Elective	4
SOBA QR requirement	4	EGC	3-4
Major Elective	3-4	Free Elective	4
Total Credits	15-16	Total Credits	15-16

¹ In order to graduate in four years, the recommended number of credits per semester is 15 credits (8 semesters X 15 credits = 120 credits for graduation).

² There is a specific group of lower level Gen. Ed. Courses. The group contains AH, HI, and SS courses. Students must complete a total of 15 credits in that group with at least 1 course from HI, 2 courses from AH, and 1 from SS (both Econ 262 and 272 will satisfy this SS requirement).

³ Econ 361 satisfies both the QR requirement and the upper-level Econ requirement.

ACCOUNTING MINOR

REQUIREMENTS FOR A MINOR IN ACCOUNTING:

A student majoring in any discipline other than Accounting may complete a minor in Accounting upon satisfactorily fulfilling the following requirements:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Acc 323	Intermediate Accounting I	4
Total		12

Electives:

Any two upper division Accounting course with ACC prefix OR one upper division ACC course and CSIS 335.

Total Elective Credits	6-8
------------------------	-----

TOTAL REQUIRED FOR ACCOUNTING MINOR 18-20

BUSINESS ADMINISTRATION MINOR

REQUIREMENTS FOR A MINOR IN BUSINESS ADMINISTRATION:

A student majoring in any discipline other than Accounting, Business Administration, Art-Business Art, Music-Music Business, Economics, or Sports Administration, may complete a minor in Business Administration upon satisfactorily fulfilling the following requirements:

Econ 262 OR 272	Principles Econ-Micro or Principles Econ-Macro	3
Acc 225	Introduction to Financial Accounting	4
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 205, Econ 201, CSIS 322, or one upper-division Business Administration elective (4 credit minimum)		3-4

TOTAL REQUIRED FOR BUSINESS ADMINISTRATION MINOR 21-22

ECONOMICS MINOR

REQUIREMENTS FOR A MINOR IN ECONOMICS:

A student majoring in any discipline other than Economics or Business Economics may complete a minor in Economics upon satisfactorily fulfilling the following requirements:

Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3

Electives:

Twelve (12) credits of additional upper-division economics courses 12

TOTAL REQUIRED FOR ECONOMICS MINOR 18

ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT MINOR

REQUIREMENTS FOR A MINOR IN ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT:

A student majoring in any discipline other than Business Administration may complete a minor in Entrepreneurship and Small Business Management upon satisfactorily completing the following requirements:

BA 205	New Business Venturing	3
BA 240	Business Creativity and Innovation	2
Subtotal		5

Electives¹ – Choose a minimum of 14 credits from the following list, at least 6 credits of which must be 300-level or above (please refer to the catalog course descriptions to determine if there are any prerequisites):

Acc 225	Financial Accounting	4
Acc 226	Managerial Accounting	4
Econ 201	Personal Finance	3
Econ 262	Principles of Econ-Micro	3
Econ 272	Principles of Econ-Macro	3
BA 260	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 330	Tourism and Resort Management	4
BA 340	Marketing	4
BA 342	Retailing	3
BA 346	Managing Customer Value	4
BA 347	Consumer Behavior	3

Subtotal		14
----------	--	----

TOTAL REQUIRED FOR ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT MINOR 19

¹ Only one course used towards a major or option may also be used as an elective in the Entrepreneurship minor.

MARKETING MINOR

REQUIREMENTS FOR A MINOR IN MARKETING:

A student majoring in any discipline other than Business Administration may complete a minor in Marketing upon satisfactorily completing the following requirements:

Econ 262 OR 272 Principles Econ-Micro or Principles Econ-Macro	3
BA 103 The U.S. Business System	3
BA 340 Marketing	4
Subtotal	10

Electives¹ – Choose a minimum of ten (10) credits selected from the following:

BA 240 Business Creativity and Innovation	2
BA 338 Sports Marketing	3
BA 339 Selling	3
BA 342 Retailing	3
BA 344 Advertising	3
BA 346 Managing Customer Value	4
BA 347 Consumer Behavior	3
BA 356 Business of Gaming	4
BA 372 Global Business Seminar	4
BA 390 Special Topics in Marketing	1-4
BA 439 Marketing and Management of Services	4
BA 445 Marketing Strategy and Policy	4
BA 446 Marketing Research	4
Subtotal	10

TOTAL REQUIREMENTS FOR MARKETING MINOR 20

¹ Only one course used towards a major or option may also be used as an elective in the Marketing minor.

CHEMISTRY

Course listings for Chemistry (CHEM) begin on page 154.

Department Chair – William R. Bartlett
Professors - William R. Bartlett, Ron C. Estler, Robert E. Milofsky,
and Leslie E. Sommerville
Assistant Professors - Cindy C. Browder and Monte Helm

Chemists are concerned with the structure, composition, energy relationships, chemical conversions, and other properties of substances. Fields such as environmental analysis, biotechnology, material science, semiconductors, waste management, pollution control, energy research and production, forensic science, and pharmaceuticals all rely on chemists. In fact, the various areas of chemical and biochemical technology offer the largest field of employment in the physical sciences.

The chemistry curriculum provides modern chemical skills and knowledge to students preparing for careers in these and other areas. Many students continue their studies in professional or graduate programs, while others start technical careers immediately after graduation. Chemistry graduates will find additional applications for their training in the fields of education, business, industry, law, government, and medicine.

Three major options within the American Chemical Society accredited Chemistry Department meet a variety of student interests as well as professional and industry demands.

The Chemistry option prepares students for professional work in various areas of applied chemistry, for admission to graduate programs in chemistry, or for interdisciplinary careers in the environmental or medical fields.

The Biochemistry option prepares students for graduate programs in biochemistry or for employment in the rapidly expanding biotechnology field. Both options are appropriate preparations for health careers or graduate studies.

The Chemistry for Secondary Teachers option prepares students for teaching science at the secondary or elementary levels, with an emphasis on chemistry. This option is not recommended for students interested in graduate programs in chemistry or biochemistry or employment in related industries.

The Chemistry Department also offers certification by the American Chemical Society (ACS) to students completing the specific requirements of the ACS-certified curriculum. ACS certification requires coursework above and beyond that of any of the three major options. Students interested in ACS certification should consult with the faculty of the Chemistry Department.

Appropriate preparation for graduate or professional school often involves advanced elective coursework. Students planning on graduate studies in chemistry, biochemistry, or related fields should consult with the chemistry faculty in planning their coursework. Students planning on professional studies in pharmacy, medicine, dentistry, physical therapy, nursing, or veterinary medicine should consult with the chemistry faculty and the Pre-Health committee when planning their studies. (See "Health Careers Program Options" section of this catalog, p. 136.)

A minor in chemistry is available for students majoring in other disciplines. Requirements for a minor in chemistry are listed at the end of this section.

CHEMISTRY – CHEMISTRY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY – CHEMISTRY OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I	4
Chem 251	Organic Chemistry II	4
Chem 300	At the Forefront of Chemical Research	3
Chem 311	General Biochemistry I	3
Chem 356	Physical Chemistry I	3
Chem 357	Physical Chemistry II	3
Chem 360	Physical Measurements	2
Chem 363	Inorganic Chemistry	3
Chem 365	Analytical Chemistry	4
Chem 465	Instrumental Analytical Chemistry	4
Chem 496	Senior Seminar	1
Chem 497	Senior Seminar	1

Subtotal Specific Departmental Requirements 43

<u>Auxiliary Requirements for Other Departments:</u>		
Math 221, 222	Calculus I and II	8
Phys 217	Physics for Science and Engineering I (preferred) OR	5
Phys 201	Physics - Non Calculus I AND	4
Phys 218	Physics for Science and Engineering II (preferred) OR	5
Phys 202	Physics - Non Calculus II	4
Subtotal Auxiliary Requirements		16-18
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

CHEMISTRY – BIOCHEMISTRY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY – BIOCHEMISTRY OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

<u>Specific Departmental Requirements:</u>		
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I	4
Chem 251	Organic Chemistry II	4
Chem 300	At the Forefront of Chemical Research	3
Chem 311	General Biochemistry I	3
Chem 312	General Biochemistry Lab	1
Chem 313	General Biochemistry II	3
Chem 356	Physical Chemistry I	3
Chem 357	Physical Chemistry II	3
Chem 360	Physical Measurements	2
Chem 363	Inorganic Chemistry	3
Chem 365	Analytical Chemistry	4
Chem 496	Senior Seminar	1
Chem 497	Senior Seminar	1
Subtotal Specific Departmental Requirements		43

<u>Auxiliary Requirements from Other Departments:</u>		
Math 221, 222	Calculus I and II	8
Bio 113	Introduction to Molecular and Cellular Biology	4
Phys 217	Physics for Science and Engineering I (preferred) OR	5
Phys 201	Physics - Non Calculus I AND	4
Phys 218	Physics for Science and Engineering II (preferred) OR	5
Phys 202	Physics - Non Calculus II	4
Choose one from the following:		
Bio 321	General Physiology	4

Bio 331	Microbiology	4
Bio 260	Genetics	4
Bio 455	Cell and Molecular Biology	4
Subtotal Auxiliary Requirements		24-26

Note: For Biochemistry majors, the Biology Department waives Bio 112 as a prerequisite for Bio 113 and has made Bio 113 the only prerequisite for the upper-division courses listed above.

Note: Students double majoring in Chemistry-Biochemistry and Biology-Cellular and Molecular Biology may take the senior seminar sequence in either chemistry (Chem 496 and 497) or biology (Bio 496 and 497); these students do not have to take both senior seminar sequences.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

CHEMISTRY – CHEMISTRY FOR SECONDARY TEACHERS OPTION

The Chemistry for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 science teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Chemistry Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY – CHEMISTRY FOR SECONDARY TEACHERS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

<u>Specific Departmental Requirements:</u>		
Chem 123 OR 323		
Chemistry for Consumers		3
Chem 125	Environmental Chemistry	3
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I	4
Chem 251	Organic Chemistry II	4
Chem 300	At the Forefront of Chemical Research	3
Chem 311	General Biochemistry I	3
One of the following:		
Chem 356	Physical Chemistry I OR	3
Chem 363	Inorganic Chemistry	3
Chem 365	Analytical Chemistry	4
Chem 496	Senior Seminar	1
Chem 497	Senior Seminar	1
Subtotal Specific Departmental Requirements		37

Auxiliary Requirements:

Bio 112	Intro to Organismic & Evolutionary Biology	4
Geol 107	Earth Systems Science	4
Phys 201	Physics Non-Calc I	4
Phys 202	Physics Non-Calc II	4
Math 221	Calculus I	4

Subtotal Auxiliary Requirements 20

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Class I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Class II Lab	1
Ed 495	Student Teaching Secondary	12

Subtotal Education Requirements 39

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Math 221, and Chem 150). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

CHEMISTRY MINOR

REQUIREMENTS FOR A MINOR IN CHEMISTRY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Chemistry may complete a minor in Chemistry upon satisfactorily completing the following requirements:

Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Chem 250	Organic Chemistry I	4
Chem 365	Analytical Chemistry	4

Choose one of the following:

Chem 305	Natural Products from Plants	3
Chem 311	General Biochemistry I	3
Chem 363	Inorganic Chemistry	3
Chem 356	Physical Chemistry I	3

TOTAL REQUIRED FOR A CHEMISTRY MINOR 19

THE ACS-CERTIFIED BACHELOR OF SCIENCE DEGREE

Chemistry majors may qualify for certification by the American Chemical Society (ACS) upon graduation by successfully completing a core of specified courses in chemistry and related fields. This program is particularly recommended for students planning to seek employment in industry. The ACS certification of the Fort Lewis College degree requires an extension of the degree requirements given above (e.g., Chem 460, Chem 464, plus additional lab credits). Students will need to consult with their advisor to carefully plan their schedules to meet these requirements.

Students planning to earn an advanced degree in chemistry, engineering, medicine, or other science-based postgraduate program for the purpose of teaching or research are encouraged to extend the basic Chemistry major by including three or four additional courses in biology, chemistry, mathematics, or physics. These courses should be selected in consultation with the Chemistry faculty.

Chemistry majors are also encouraged to study a foreign language.

CHEMISTRY MAJOR FOR CAREERS IN THE HEALTH PROFESSIONS

Chemistry majors are well prepared to seek admission to professional programs in law, medicine, veterinary medicine, dentistry, physical therapy, medical technology, and pharmacy. For assistance in planning their curricula, students interested in these programs should consult with members of the Chemistry faculty who are members of the Pre-Professional Advisory Committee. (See "Health Careers Program Options" section of this catalog, page 136.)

COMPUTER SCIENCE AND INFORMATION SYSTEMS (CSIS)

Course listings for CSIS begin on page 157.

Coordinator - Evans J. Adams
 Professor - Evans J. Adams
 Associate Professor - Aaron Gordon
 Assistant Professor - Brian Hanks
 Visiting Professor - Greg Butler

The interdisciplinary major leading to the Bachelor of Arts degree in Computer Science Information Systems (CSIS) combines the fields of computer science (the science of creating computer software) and information systems (the application of computer software). The program emphasizes breadth of knowledge and the development of written and oral communication skills, which are trademarks of a liberal arts education, combined with professional competence in computer science and/or information systems. The student specializes in one of these fields by choosing the Computer Science option or the Information Systems option described below.

The primary objectives of the curriculum are to ensure that every graduate is thoroughly familiar with the fundamental principles of modern computer science and information systems; understands how these principles relate to software, hardware, and system design; and is familiar with at least one significant area of applications of computers. Other major objectives include providing graduates with the ability to understand a variety of problem-solving algorithms; familiarity with several programming languages for implementing these algorithms; understanding of hardware and/or software systems; the ability to make informed choices of software and hardware for a variety of problems; and an understanding of the role that human factors play in implementing computer-based systems.

Computer Science generally refers to the application of scientific and engineering principles to the development of software products. Students choosing the Computer Science option will receive training far beyond the ability to write programs that work. Software engineers must construct program systems that work efficiently and are comprehensible so that modification can be performed effectively when required. Software maintenance is as much a part of software engineering as the creation of new software.

Selection of the Information Systems option generally leads to a career as a systems analyst, information system manager, or software project manager. These positions are responsible for choosing the right hardware and software for a particular information technology problem and for organizing the database in a suitable form. A significant portion of the courses for this option will also address the concepts of software engineering and software project management as they apply to the development of large-scale software systems. A growing number of systems analysts also design and maintain computer networks.

COMPUTER SCIENCE AND INFORMATION SYSTEMS – COMPUTER SCIENCE OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF CSIS – COMPUTER SCIENCE OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements:</u>	
CSIS 110 Introduction to Programming (Java)	4
CSIS 210 Data Structures	4
CSIS 305 Discrete Structures	4
CSIS 321 Computer Architecture and Organization	4
CSIS 360 Software Engineering 1: Systems Analysis	4
CSIS 370 Software Engineering 2: Systems Design	4
CSIS 421 Operating Systems	4
CSIS 496 Senior Seminar	2
CSIS Electives:	
Four additional upper-division CSIS courses	15-16
Subtotal Specific Departmental Requirements	45-46
<u>Auxiliary Department Requirements:</u>	
Math 201 or BA 253 or Psyc 241	
Elementary Statistics	4
Math 221 Calculus I	4
Math 222 Calculus II	
OR	
Math 311 Matrices & Linear Algebra	4
Comp 252 Professional and Tech. Writing	3
Subtotal Auxiliary Requirements	15
TOTAL MAJOR REQUIREMENTS	60-61
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

COMPUTER SCIENCE AND INFORMATION SYSTEMS – INFORMATION SYSTEMS OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF CSIS – INFORMATION SYSTEMS OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

CSIS 105	The Computer as a Tool	4
CSIS 106	Intro to Programming Visual Basic	4
CSIS 110	Introduction to Programming (Java)	4
CSIS 206	Adv Programming in Visual Basic	4
CSIS 350	Database Management Systems	4
CSIS 360	Software Engineering 1: Systems Analysis	4
CSIS 370	Software Engineering 2: Systems Design	4
CSIS 496	Senior Seminar	2

CSIS Electives:

Three additional upper-division CSIS courses 12
(CSIS 210 may substitute for one of these courses)

Subtotal Specific Departmental Requirements 42

Auxiliary Department Requirements:

Math 201 or BA 253 or Psyc 241	Elementary Statistics	4
Math 210	Survey of Calculus	4
BA 353	Operations Management	4
Comp 252	Professional and Tech. Writing	3

Subtotal Auxiliary Requirements 15

TOTAL MAJOR REQUIREMENTS 57

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

As part of the general electives requirement for graduation, students majoring in CSIS are strongly encouraged to complete a minor (or the equivalent of a minor) in any field of study offered Fort Lewis College. By doing so, the student will solidify his/her liberal arts education and be prompted to pay close attention to career planning during the last two years of study. The choice of the minor should be discussed with the student's CSIS advisor.

COMPUTER SCIENCE INFORMATION SYSTEMS MINOR

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE INFORMATION SYSTEMS

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Computer Science may complete a minor in Computer Science upon satisfactorily completing the following requirements:

Choose one of the following two sequences:

CSIS 110	Introduction to Programming (Java)	4
CSIS 210	Data Structures	4
	OR	
CSIS 106	Intro to Programming in Visual Basic	4
CSIS 206	Advanced Programming in Visual Basic	4

Three additional CSIS courses, except CSIS 322, at least 2 of which are numbered above 300 12

TOTAL REQUIRED FOR CSIS MINOR 20

CRIMINOLOGY MINOR

(See page 120.)

ENGINEERING

Course listings for Engineering (ENGR) begin on page 165.

Department Chair - Gerald Crawford
Professors - Gerald Crawford, Omnia I. El-Hakim and Donald R. May
Assistant Professor - Laurie Williams

Fort Lewis College offers an ABET (Accreditation Board for Engineering and Technology) accredited program resulting in a Bachelor of Science (BS) degree in the Engineering Physics option of the Physics major. (See Physics Department section, page 111, for the requirements of this option, as well as requirements for the Engineering minor.) This popular program combines the theory of physics with the application of engineering into an ABET engineering accredited program. In addition to the Engineering Physics program, Fort Lewis College offers a long standing pre-engineering program that provides a full range of freshman-, sophomore- and some junior-level courses that prepare students who wish to transfer to another school to complete their degree. We work closely with a wide variety of engineering programs at the University of Colorado, Colorado State University, Colorado School of Mines, University of New Mexico, and New Mexico State University to assure transferability of courses. Many students also successfully transfer to other degree-granting engineering institutions around the country.

Successful completion of an appropriate block of courses at Fort Lewis College, with the required minimum grade point average (GPA), prepares you to transfer with junior level standing. The Fort Lewis College pre-engineering program lets students begin their engineering studies at a small college with a liberal arts emphasis. For detailed information about specific transfer requirements and programs students should consult with an engineering advisor.

Course Equivalency has generally been awarded for the following courses:

Engr 103 Computer Aided Drafting
Engr 104 Computer Programming for Scientists and Engineers
Engr 105 Engineering Principles
Engr 201 Electric Networks I
Engr 205 Surveying I
Engr 217 Statics
Engr 221 Dynamics
Engr 270 Thermodynamics
Engr 317 Mechanics of Materials
Engr 321 Fluid Dynamics

Phys 217 Physics - Science & Engr I
Phys 218 Physics - Science & Engr II

Math 221 Calculus I
Math 222 Calculus II
Math 223 Calculus III
Math 327 Differential Equations

Additional engineering courses may satisfy degree requirements within specific programs at many schools (e.g., Engr 202 Electric Networks II; Engr 238 Digital Logic Design; Engr 305 Surveying II).

ENGLISH

Course listings for English (ENGL) begin on page 163.

Department Chair – Jennifer A. Gehrman

Professors - Gordon P. Cheesewright, Larry K. Hartsfield, and Mary Jean Moseley

Associate Professors - Jennie C. Dear, Jennifer A. Gehrman, Michele M. Malach, Faron L. Scott, and Delilah G. Orr

Assistant Professors - Bradley P. Benz, Nancy K. Cardona, Shawn Fullmer, and Kurt W. Lancaster

The work offered in English deals with several aspects of liberal education: the linguistic and literary history of Western culture; selected studies in non-Western literature in translation; human values; the relationships between cultures in the Southwest; and written and oral communication, both utilitarian and creative.

Students with other majors find courses in English valuable for their general educational development. In addition, the English Department offers supporting courses for the Southwest Studies major, the Humanities major, and other courses in intercultural studies.

English advisors can help students plan courses of study preparing them for graduate or professional school; careers in business, industry, or government; careers in communications, theatre, or teaching.

The English major has four options:

The General option: A traditional English major; preparation for graduate or professional school.

The Communications option: An English major with an emphasis on mass media theory and practice; preparation for graduate school or industry.

The Writing option: An English major with an emphasis on writing; preparation for graduate school and writing-related careers.

The English for Secondary Teachers option: Preparation for secondary school teaching. Students must complete teacher licensure requirements in order to complete the English for Secondary Teachers option.

Minors in Literature, Communications, and Writing are available for students majoring in other disciplines. Requirements for these minors are described at the end of this section.

Although the four options provide a wide range of choices in coursework tailored to students' career and graduate school goals, students in all options share a core curriculum. This common curriculum is integrated around reading, critiquing, creating, and producing texts:

- Reading/Writing Texts—Engl 268
- A lower-division non-western or Classical literature course (numerous choices)
- A survey of British or American literature—Engl 230 or 240
- An upper-division writing course—Engl 315, 363, or 464
- An upper-division Topics course (numerous choices)
- Senior Seminar—Engl 496

ENGLISH – GENERAL OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH – GENERAL OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements:</u>	
Engl 268 Reading Texts/Writing Texts	4
Engl 230 Survey of British Literature	4
Engl 240 Survey of American Literature	4
Engl 320 The Novel	4
Choose one from the following six courses:	4
Engl 174 African-American Literature	
Engl 175 Women's Literature	
Engl 176 Native American Literature	
Engl 177 U.S. Latina/o Literature	
Engl 221 Classical Literature	
Engl 280 Literature of the Southwest	
Choose one of the following three courses:	4
Engl 315 Media Writing: Topics	
Engl 363 Advanced Composition	
Engl 464 Creative Writing	
Engl 432 Shakespeare	4
Choose one of the following two courses:	4
Engl 461 History of the English Language	
Engl 462 Linguistics	
Choose one Topics course in British literature from:	4
Engl 340, 341, 430	
Choose one Topics course in American Literature from:	4
Engl 345, 346, 380	
Choose one additional Topics course from:	
Engl 315, 317, 341, 345, 346, 380, 417, 423, 424, 430, 461, 462, 477; Thea 340, 381	4
Engl 496 Senior Seminar	4
Note: Engl 499 cannot replace Engl 496.	
Subtotal Specific Departmental Requirements	48

<u>Auxiliary Requirements:</u>	
Two semesters of one college-level modern language	6-8
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ENGLISH – COMMUNICATIONS OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH – COMMUNICATIONS OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	

Specific Departmental Requirements:

Engl 116 Introduction to Mass Communications	4
Engl 268 Reading Texts/Writing Texts	4
Engl 217 Media Literacy	4
Engl 304 Digital Video Production	4
Engl 308 Interactive Media Production	4
Engl 315 Media Writing: Topics	4
Engl 416 Media Theory and Criticism	4

Choose one of the following six courses: 4

Engl 174 African American Literature	
Engl 175 Women's Literature	
Engl 176 Native American Literature	
Engl 177 U.S. Latina/o Literature	
Engl 221 Classical Literature	
Engl 280 Literature of the Southwest	

Engl 215 News Media Writing 4

Choose one of the following two courses: 4

Engl 230 Survey of British Literature	
Engl 240 Survey of American Literature	

Choose two Topics courses from the following: 8

Engl 315 (repeatable provided topic is different from above), 317, 320, 340, 341, 345, 346, 380, 417, 420, 423, 424, 430, 477; Thea 340, 369.

Minimum of four credits in two media from: 4

Engl 250/350 Practicum--Newspaper	
Engl 251/351 Practicum--Radio	
Engl 404 Advanced Media Production (students who take this course to meet these requirements, must in addition, take a minimum of one credit in either newspaper or radio practicum).	

Note: Students are allowed a maximum of 18 credits toward graduation in practicum courses in any combination of the following: Engl 250/251 up to six credits, Engl 350/351 up to 12 credits.

Engl 496 Senior Seminar 4

Note: Engl 499 cannot replace Engl 496

Subtotal Specific Departmental Requirements	56
---------------------------------------------	----

Free Electives (variable)
(English advisors can help students select courses which will further strengthen their individual career goals.)

TOTAL REQUIRED FOR GRADUATION	120
--------------------------------------	------------

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ENGLISH – WRITING OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH –WRITING OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	

Specific Departmental Requirements:

Engl 267 Persuasive Writing	4
Engl 268 Reading Texts/Writing Texts	4
Engl 273 Intro to Literary Types	2
Engl 315 Media Writing: Topics	4
Engl 315A Media Writing: Creative Non-Fiction	4
Engl 363 Advanced Composition	4
Engl 464 Creative Writing	4

Choose one from the following six literature courses: 4

Engl 174 African-American Literature	
Engl 175 Women's Literature	
Engl 176 Native American Literature	
Engl 177 U.S. Latina/o Literature	
Engl 221 Classical Literature	
Engl 280 Literature of the Southwest	

Engl 215 News Media Writing 4

One of the following two courses: 4

Engl 230 Survey of British Literature	
Engl 240 Survey of American Literature	

Choose two courses from the following: 8

Engl 317, 320, 340, 341, 345, 346, 366, 378, 380, 416, 417, 423, 424, 430, 432, 461, 462, 477

Engl 496 Senior Seminar 4

Note: Engl 499 cannot replace Engl 496.

Specific Departmental Requirements	50
------------------------------------	----

TOTAL REQUIRED FOR GRADUATION	120
--------------------------------------	------------

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ENGLISH – ENGLISH FOR SECONDARY TEACHERS OPTION

The English for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 English teachers.

This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult an English Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH – ENGLISH FOR SECONDARY TEACHERS OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Engl 217	Media Literacy	4
Engl 230	Survey of British Literature	4
Engl 240	Survey of American Literature	4
Engl 268	Reading Texts/Writing Texts	4
Engl 366	Teaching Writing	4
Engl 378	Young Adult Literature	4
Engl 432	Shakespeare	4
Engl 461	History of the English Language	4
Engl 462	Linguistics	4
Engl 483	Methods and Materials for Teaching High School English	4
Engl 496	Senior Seminar	4

Choose one of the following six courses: 4

Engl 174	African American Literature
Engl 175	Women's Literature
Engl 176	Native American Literature
Engl 177	U.S. Latina/o Literature
Engl 221	Classical Literature
Engl 280	Literature of the Southwest

Choose one Topics courses from the following: 4

Engl 317, 320, 340, 341, 345, 346, 380, 417, 420, 423, 430, 477

Choose one course from the following three courses: 4

Engl 315, 363, 464

Subtotal Specific Departmental Requirements 56

Auxiliary Department Requirements:

Two semesters of one college-level modern language 8

Subtotal Auxiliary Requirements 8

TOTAL MAJOR REQUIREMENTS 64

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1
ED 424	Teaching Language & Math 7-12	3
Ed 495	Student Teaching Secondary	12

Subtotal Education Requirements 36

NOTE: Admission to Teacher Licensure required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Engl 116, Engl 174). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

LITERATURE MINOR

REQUIREMENTS FOR A MINOR IN LITERATURE:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than English may complete a minor in Literature upon satisfactorily completing the following requirements:

The following three courses are required:

Engl 230	Survey of British Literature	4
Engl 240	Survey of American Literature	4
Engl 432	Shakespeare	4

Plus, two upper-division literature courses selected from the following: 8

Engl 320	The Novel
Engl 340	19th Century British Literature: Topics
Engl 341	Early Modern Literature: Topics
Engl 345	American Literature: Topics I
Engl 346	American Literature: Topics II
Engl 380	Native American Literature: Topics
Engl 423	Genres: Topics
Engl 424	Comparative Literature: Topics
Engl 430	Medieval Literature and Chaucer: Topics
Engl 477	20th Century Literature: Topics

TOTAL REQUIRED FOR LITERATURE MINOR 20

COMMUNICATIONS MINOR

REQUIREMENTS FOR A MINOR IN COMMUNICATIONS:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than English may complete a minor in Communications upon satisfactorily completing the following requirements:

The following courses are required:

Engl 116	Introduction to Mass Communications	4
Engl 215	News Media Writing	4
Engl 304	Digital Video Production	
	OR	
Engl 308	Interactive Media Production	4
Engl 315	Media Writing: Topics	
	OR	
Engl 363	Advanced Composition	4
Engl 416	Media Theory and Criticism	4

Two or four credits from:

Engl 250/350	Practicum—Newspaper	1-6
	OR	
Engl 251/351	Practicum—Radio	1-6
	OR	
Engl 404	Advanced Media Production	4

TOTAL REQUIRED FOR COMMUNICATIONS MINOR 22-24

WRITING MINOR

REQUIREMENTS FOR A MINOR IN WRITING:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than English may complete a minor in Writing upon satisfactorily completing the following requirements:

The following course is required:

Engl 267	Persuasive Writing	4
----------	--------------------	---

Plus, three writing courses selected from the following: 12

Engl 215	News Media Writing
Engl 315	Media Writing: Topics
Engl 363	Advanced Composition
Engl 366	Teaching Writing
Engl 464	Creative Writing

TOTAL REQUIRED FOR WRITING MINOR 16

ENVIRONMENTAL STUDIES

Course listings for Environmental Studies (ENVS) begin on page 167.

Coordinator – Tina Evans (General Studies)

Faculty – Cindy Browder (Chemistry), Brad Clark (Political Science), Cynthia Dott (Biology), Tina Evans (General Studies), Reyes Garcia (Philosophy), Karen Jarratt-Ziemski (American Indian Studies), Aaron Lampman (Anthropology), Peter McCormick (Southwest Studies), Mark Seis (Sociology), Scott White (Geosciences), and Yohannes Woldemariam (Political Science)

Advisors – Julie Korb (Biology), David Kozak (Anthropology), Phil Shuler (Agriculture and Biology), and Les Sommerville (Chemistry)

Community Coordinator – Marcus Renner (Environmental Center)

Environmental Studies is an interdisciplinary degree program that provides students with the social, political, and scientific background for careers focused on environmental issues. The program prepares dynamic leaders who can negotiate the ecological and sociocultural aspects of complex local and global environmental issues that face societies today. The flexibility of the curriculum allows students to create a course of study that is most appropriate for their own career goals, while providing the rigorous background expected of all professionals in environmentally oriented fields.

Environmental Studies is unique in that it unites a broad array of disciplines, and students are expected to explore courses in the sciences, social sciences, humanities, and policy in order to gain a broad understanding of environmental issues. The core curriculum includes coursework in math, science, economics, political science, anthropology, American Indian Studies, and other areas of social sciences and the humanities. The three major options allow students to concentrate on a specific career path by selecting courses that are most appropriate for their needs. The knowledge gained in the core curriculum is then applied in a series of upper-division experiential courses. This three-semester capstone experience for Environmental Studies majors will require at least 300 hours of community-based learning and research and an additional 150 hours in research through the Senior Seminar

experience. These opportunities will allow students to develop expertise in a particular aspect of Environmental Studies and provide them with valuable field experience that will guide them and set them apart from the competition in their career pursuits.

This major is designed to prepare students for graduate studies or careers in environmental management, public policy, environmental justice, government, and law, to name a few, as well as careers in tribal policy, tribal government environmental management, and tribal environmental justice. Studies will be introduced to numerous career options through courses like Symposium in Environmental Studies and Community Internship.

When coupling an Environmental Studies major with an additional major or minor in biology, chemistry, geology, or physics, students will be well prepared for graduate studies and careers in environmental science. Students interested in further study or careers in scientific research should explore majors in biology, chemistry, geosciences, and physics. Degree options in Environmental Biology and Environmental Geology may be of particular interest to students wishing to study science in an environmental context.

DEGREE OPTIONS

There are three Bachelor of Arts degree options within Environmental Studies and a minor in Environmental Policy. The major options allow students to take a coursework sequence that is most applicable to their research, educational, and career goals. The major consists of a 62-64 credit common core, providing the basis of knowledge in biology, chemistry, geology, math, economics, anthropology, English, sociology, and political science. The General option requires additional coursework in Culture, Policy, and Science. The Culture option allows students to focus on cultural aspects of environmental issues, and the Policy option provides focus on political processes. Students are strongly encouraged to regularly consult with their advisors to (1) determine which degree option best fits their interests, (2) ensure they meet the upper-division requirements for graduation, and (3) make certain they meet all necessary prerequisites for courses of interest. A description of the Environmental Policy minor follows the major options.

ENVIRONMENTAL STUDIES - GENERAL OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF ENVIRONMENTAL STUDIES - GENERAL OPTION:

General Education

39

See pp. 23-27 for General Education requirements.

Common ENVS Major Requirements:

Envs 220	Symposium in Environmental Studies	1
Envs 310	Community Internship	3
GS 495	Environmental Colloquium	4
Envs 496	Senior Seminar	3
Econ 262	Principles of Economics – Micro	3
Econ 335	Environment/Resource Economics	4
Bio 112	Intro. Organismic and Evolutionary Bio	4
Bio 125	Conservation Biology	3
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Geol 113	Physical Geology	4
Geog 335	Weather and Climate	3
Anth 208	Trad. Ecol. Knowl. & Cultural Survival	4
PS 130	Intro to Environmental Policy	4

Choose One:

Math 201	Elementary Statistics	4
Psyc 241	Basic Statistics for Psychologists	4
BA 253	Business Statistics	4

Choose One:

Soc 100	Introduction to Sociology	4
Hist 181 or SW 181		
US/SW Enviro. Hist.		3

Choose One:

Eng 180	Literature of the Environment	4
Phil 252	Environmental Ethics	4

Choose One:

SW 361	Cultural Ecology of the Southwest	3
Anth 356	Ecological Anthropology	4

Subtotal Common ENVS Major Requirements 62-64

Specific Option Requirements:

Select one course from the following list (culture):

Anth 243	Food: Systems of Production	4
*Anth 356	Ecological Anthropology	4
Anth 388	Ethnology of the Southwest	4
Geog 271	World Regional Geography	4
Geog 320	The North American Landscape	3
Psyc 260	Environmental Psychology	4
*Phil 252	Environmental Ethics	4
Phil 320	Indigenous Worldviews	4
Phil 352	Ecology and Morality	4
Soc 310	Ecology and Society	4
Soc 311	Ecology and Society Field School	8
SW 322	American Indian Philosophies	3
*SW 361	Cultural Ecology of the Southwest	3

*Courses marked with an asterisk cannot be counted toward both the common and the specific option requirements.

Select one course from the following list (policy):

Econ 364	Macroeconomic Theory	4
Econ 369	Public Finance	4
PS 205	Environmental Politics	3
PS/Soc 400	Native Amer. Law and Politics	4
SW 333	Wilderness in America	3
SW 335	Nat'l Parks: America's Best Idea	3
SW 355	Development of US Indian Policy	3

Select one course from the following list (science):

Ag 180	Sustainable Agriculture	3
Bio 206	General Botany	4
Bio 207	General Zoology	4
Bio 320	Fundamentals of Ecology	4
Bio/SW 250	Ecology of the Southwest	4
Chem 250	Org. Chem. I: Org. Compounds	4
Chem 305	Natural Products From Plants	3
Chem 365	Analytical Chemistry	4
Geog 250	Intro Computer Mapping & GIS	4
Geol 114	Historical Geology	4
Geol 207	Mineralogy	4
Math 121	Pre-Calculus	4

Subtotal Specific Option Requirements 9-12

TOTAL MAJOR REQUIREMENTS 71-76

Free electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

ENVIRONMENTAL STUDIES - CULTURE OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF ENVIRONMENTAL STUDIES - CULTURE OPTION:

General Education

39

See pp. 23-27 for General Education requirements.

Common ENVS Major Requirements:

Envs 220	Symposium in Environmental Studies	1
Envs 310	Community Internship	3
GS 495	Environmental Colloquium	4
Envs 496	Senior Seminar	3
Econ 262	Principles of Economics – Micro	3
Econ 335	Environment/Resource Economics	4
Bio 112	Intro. Organismic and Evolutionary Bio	4
Bio 125	Conservation Biology	3
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Geol 113	Physical Geology	4
Geog 335	Weather and Climate	3
Anth 208	Trad. Ecol. Knowl. & Cultural Survival	4
PS 130	Intro to Environmental Policy	4

Choose One:

Math 201	Elementary Statistics	4
Psyc 241	Basic Statistics for Psychologists	4
BA 253	Business Statistics	4

Choose One:		
Soc 100	Introduction to Sociology	4
Hist 181 or SW 181	US/SW Enviro. Hist.	3
Choose One:		
Eng 180	Literature of the Environment	4
Phil 252	Environmental Ethics	4
Choose One:		
SW 361	Cultural Ecology of the Southwest	3
Anth 356	Ecological Anthropology	4
Subtotal Common ENVS Major Requirements		62-64
<u>Specific Option Requirements:</u>		
Select 2 courses from the list below (culture):		
Anth 243	Food: Systems of Production	4
*Anth 356	Ecological Anthropology	4
Anth 388	Ethnology of the Southwest	4
Geog 271	World Regional Geography	4
Geog 320	The North American Landscape	3
Psyc 260	Environmental Psychology	4
*Phil 252	Environmental Ethics	4
Phil 320	Indigenous Worldviews	4
Phil 352	Ecology and Morality	4
Soc 310	Ecology and Society	4
Soc 311	Ecology and Society Field School	8
SW 322	American Indian Philosophies	3
*SW 361	Cultural Ecology of the Southwest	3
*Courses marked with an asterisk cannot be counted toward both the common and the specific option requirements.		
Select one course from the list below (science):		
Ag 180	Sustainable Agriculture	3
Bio 206	General Botany	4
Bio 207	General Zoology	4
Bio 320	Fundamentals of Ecology	4
Bio/SW 250	Ecology of the Southwest	4
Chem 250	Org. Chem. I: Org. Compounds	4
Chem 305	Natural Products From Plants	3
Chem 365	Analytical Chemistry	4
Geog 250	Intro Computer Mapping & GIS	4
Geol 114	Historical Geology	4
Geol 207	Mineralogy	4
Math 121	Pre-Calculus	4
Subtotal Specific Option Requirements		9-12
TOTAL MAJOR REQUIREMENTS		71-76
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

ENVIRONMENTAL STUDIES - POLICY OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR OF ENVIRONMENTAL STUDIES - POLICY OPTION:

General Education		39
See pp. 23-27 for General Education requirements.		
<u>Common ENVS Major Requirements:</u>		
Envs 220	Symposium in Environmental Studies	1
Envs 310	Community Internship	3
GS 495	Environmental Colloquium	4
Envs 496	Senior Seminar	3
Econ 262	Principles of Economics – Micro	3
Econ 335	Environment/Resource Economics	4
Bio 112	Intro. Organismic and Evolutionary Bio	4
Bio 125	Conservation Biology	3
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Geol 113	Physical Geology	4
Geog 335	Weather and Climate	3
Anth 208	Trad. Ecol. Knowl. & Cultural Survival	4
PS 130	Intro to Environmental Policy	4
Choose One:		
Math 201	Elementary Statistics	4
Psyc 241	Basic Statistics for Psychologists	4
BA 253	Business Statistics	4
Choose One:		
Soc 100	Introduction to Sociology	4
Hist 181 or SW 181	US/SW Enviro. Hist.	3
Choose One:		
Eng 180	Literature of the Environment	4
Phil 252	Environmental Ethics	4
Choose One:		
SW 361	Cultural Ecology of the Southwest	3
Anth 356	Ecological Anthropology	4
Subtotal Common ENVS Major Requirements		62-64
<u>Specific Option Requirements:</u>		
Select two courses from the following list (policy):		
Econ 364	Macroeconomic Theory	4
Econ 369	Public Finance	4
PS 205	Environmental Politics	3
PS/Soc 400	Native Amer. Law and Politics	4
SW 333	Wilderness in America	3
SW 335	Nat'l Parks: America's Best Idea	3
SW 355	Development of US Indian Policy	3

Select one course from the following list (science):

Ag 180	Sustainable Agriculture	3
Bio 206	General Botany	4
Bio 207	General Zoology	4
Bio 320	Fundamentals of Ecology	4
Bio/SW 250	Ecology of the Southwest	4
Chem 250	Org. Chem. I: Org. Compounds	4
Chem 305	Natural Products From Plants	3
Chem 365	Analytical Chemistry	4
Geog 250	Intro Computer Mapping & GIS	4
Geol 114	Historical Geology	4
Geol 207	Mineralogy	4
Math 121	Pre-Calculus	4

Subtotal Specific Option Requirements 9-12

TOTAL MAJOR REQUIREMENTS 71-76

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Relevant courses from a variety of disciplines may also be offered as 190, 191, 390, or 391 courses. See the Environmental Studies Major Coordinator and advisors about current offerings that could be applied towards one of the Environmental Studies degree options. **PRIOR APPROVAL FROM THE ENVIRONMENTAL STUDIES MAJOR COMMITTEE MUST BE OBTAINED IN ORDER TO HAVE THESE COURSES INCLUDED AS PART OF THE DEGREE REQUIREMENTS.**

Environmental Policy Majors Suggested Course Sequence

<u>FRESHMAN FALL SEMESTER</u>		<u>FRESHMAN WINTER SEMESTER</u>	
PS 130	4	Math 110 or elective	3-4
Bio 112	4	Bio 125	3
Anth 208	4	Soc 100 or Hist/SW 181	4
Comp 150	4	Geol 113	4
Total	16	Total	14-15

<u>SOPHOMORE FALL SEMESTER</u>		<u>SOPHOMORE WINTER SEMESTER</u>	
Chem 150	4	Chem 151	4
Econ 262	3	Math 201 (or Psyc 241 or BA 253)	4
ENVS 220	1	Engl 180 (or Phil 252)	4
Comp 250	4	gtPathways SS course	3-4
Elective	3-4	Total	15-16
Total	15-16		

<u>JUNIOR FALL SEMESTER</u>		<u>JUNIOR WINTER SEMESTER</u>	
Elective	3-4	Geog 335	3
Econ 335	4	Option course	3-4
SW 361 or Anth 356	3-4	Elective	3-4
PE	1	ENVS 310	3
gtPathways AH course	3-4	Total	12-14
Total	15-17		

<u>SENIOR FALL SEMESTER</u>		<u>SENIOR WINTER SEMESTER</u>	
Option course	3-4	Option Course	3-4
GS 495	4	ENVS 496	3
EGC course	3-4	EGC course	3-4
Elective	3-4	Elective	3-4
Total	13-16	Total	12-15

ENVIRONMENTAL POLICY MINOR

The Environmental Policy minor would be an excellent addition to any major at Fort Lewis College except Environmental Studies. By completing the Environmental Policy minor, students can enhance their preparation for graduate school or a career in areas such as environmental management, public policy, environmental justice, government, law, and tribal services, to name a few, as well as careers in tribal policy, tribal government environmental management, and tribal environmental justice. As described for the Environmental Studies major, the Environmental Policy minor is interdisciplinary and is designed to prepare dynamic leaders who can negotiate the ecological and sociocultural aspects of complex environmental problems. Students are strongly encouraged to work closely with their advisors to ensure they design a course of study that best suits their career goals and fulfills all prerequisites and general education requirements in a timely fashion. Students interested in completing the minor should contact a faculty member or advisor in Environmental Studies to learn about the courses, internships, and practicum opportunities relevant to the minor.

There are three components to the minor:

1. Students select 18 credits from a list of existing courses representing the diverse perspectives on environmental issues (see below). A maximum of four credits can be applied toward the minor from an Independent Study, Internship, Innovative Month, or Practicum with the prior approval of the Coordinator.
2. Students must also take a statistics course and at least two lab science courses; these are listed as auxiliary requirements (see below) and may be used to meet major requirements as well as the minor. In addition, two courses must be taken outside the departments of Agriculture, Biology, Chemistry, Geosciences, and Physics/Engineering.
3. Finally there is an integrative capstone course, GS 495, taken in the junior or senior year, in which students and faculty of varied backgrounds come together to work on joint projects related to local, regional, or national environmental concerns.

REQUIREMENTS FOR A MINOR IN ENVIRONMENTAL POLICY:

A student majoring in any discipline other than Environmental Studies may complete a minor in Environmental Policy upon satisfactorily completing the following requirements:

GS 495 Environmental Colloquium 4

18 additional credits chosen from the list below, at least nine credits of which must be upper-division. No more than four credits from Independent Study, Internship, Innovative Month, or Practicum are allowed without prior approval of Environmental Studies faculty. Students are strongly encouraged to work closely with their advisor to ensure all prerequisites for each selected course have been taken. (NOTE: NO MORE THAN ONE COURSE FROM YOUR MAJOR DEPARTMENT WILL COUNT TOWARD THIS MINOR.)

Ag 301	Range Management	4
Anth 356	Ecological Anthropology	4
Bio 125	Conservation Biology	4
Bio 141	Global Ecological Issues	3
Bio 320	Fundamentals of Ecology	4
Bio 376	Field Ecology	5
Chem 123	Chemistry for Consumers	3
Chem 323	Chemistry for Consumers	3
Econ 335	Environmental Economics	4
Engr 205	Surveying I	4
Geog 271	World Regional Geography	4
Geog 320	The North American Landscape	3
Geol 325	Introduction to Remote Sensing	4
Geol 401	Natural Resources and the Environment	3
Phil 252	Environmental Ethics	4
Phil 352	Ecology and Morality	3
Phys 400	Science and Human Values	2
PS 205	Environmental Politics	3
Soc 310	Ecology and Society	4
Soc 311	Ecology and Society Field School	8
SW 181	U.S./Southwest Environmental History	3
TS2N 406	Water in the West	4
TS2T 402	Ag Issues in Society	3

Relevant courses from a variety of disciplines may also be offered as 190, 191, 390, or 391 courses. Other relevant courses can also be found in course lists from the Environmental Studies Options. Students are strongly encouraged to talk with an Environmental Studies advisor about current offerings that could be applied toward the Environmental Policy Minor. PRIOR APPROVAL FROM THE ENVIRONMENTAL STUDIES COMMITTEE MUST BE OBTAINED IN ORDER TO HAVE THESE COURSES INCLUDED AS PART OF THE MINOR.

Auxiliary Requirements:

One course in statistics (choose from Psych 241, Math 201, BA 253)	4
Two laboratory science courses, which may be taken as part of the major	8

TOTAL REQUIREMENTS FOR A MINOR IN ENVIRONMENTAL POLICY 34

EXERCISE SCIENCE

Course listings for Exercise Science (PE) begin on page 167.

Department Chair - Paul W. Petersen

Professor - Paul W. Petersen

Associate Professors - Mary Ann Erickson, Melissa Knight-Maloney, JoAnn C. Soignier, and Bob Stremba

Assistant Professors - Robert W. Brooks, James S. Cross, Marcelyn B. Jung, Carrie Meyer, and Cathy M. Simbeck

Instructors - Wayne Barger, Megan Pales, and Andrew Vanous

Visiting Instructor – Mark Dutro

DEPARTMENTAL MISSION

The Exercise Science department aims to meet the needs of its graduates to function more efficiently as professionals in the discipline; to compete more favorably in today's job market by providing students with a variety of opportunities to develop a scientific knowledge base; to engage in practical experiences; and to learn, develop and master social and leadership skills. Students acquiring this knowledge will be prepared to pursue opportunities through occupations such as teaching, coaching, administration, adventure educator, and athletic training, as well as other recreational, wellness, and fitness careers. The department also endeavors to provide the students of Fort Lewis College with opportunities to learn and experience the components of healthy living, life-long activities, and sport competition.

OBJECTIVES

1. The professional preparation of skilled teachers of human movement and exercise forms as well as qualified persons in the allied areas of administration, coaching, adventure education, athletic training, and the field of fitness.
2. A meaningful program (individual, dual, and team activities) stressing the lifetime value of activity for all students.
3. Practical extracurricular experiences in health, fitness, exercise, and athletic training.
4. Professional leadership for the intramural, recreational, and fitness activities of the students.

PROGRAMS OF STUDY

The Exercise Science department has developed four options within the Exercise Science major and a major in Adventure Education. The major options provide concentrated study in many of the disciplines associated with the Exercise Science major. The options are as follows:

1. Athletic Training, for those interested in sports injury evaluation and rehabilitation.
2. Exercise Specialist, a flexible option for individuals interested in a variety of opportunities in the field of Exercise Science. This option can provide the foundation for those interested in personal training, physical therapy, or graduate study in Exercise Science.
3. K-12 Teaching option for those wanting to become physical educators in the school system. It is strongly advised that all students interested in the K-12 option consult with an advisor in the Teacher Education Department to ensure that all licensure requirements are met.
4. Sport Administration option studies the business and administrative aspects of sport and recreation. The students in this option will study in both the Exercise Science department and the School of Business Administration.

As with all majors, the Exercise Science faculty encourage strong contact with Exercise Science advisors to ensure timely completion of the major.

EXERCISE SCIENCE – ATHLETIC TRAINING OPTION

The Commission on Accreditation of Athletic Training Education (CAATE) accredits the Athletic Training Education Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE – ATHLETIC TRAINING OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements:</u>	
ES 205 Emergency Response	2
ES 220 Clinical in Athletic Training I	1
ES 223 Techniques in Conditioning	1
ES 224 Basic Principles of Athletic Training	3
ES 240 Clinical in Athletic Training II	1
ES 242 Testing and Statistics	3
ES 283 Evaluation of Injuries I	3
ES 285 Evaluation of Injuries II	3
ES 301 Current Issues in Sport	3
OR	
ES 302 Issues in Health and Well-Being	3
ES 320 Clinical in Athletic Training III	1
ES 335 Kinesiology and Biomechanics	4
ES 340 Motor Learning and Control	3
ES 353 Nutrition for Fitness and Sport	3
ES 360 Exercise Physiology	4
ES 361 Advanced Exercise Physiology	3
ES 363 Computer Applications in Exercise Science	3
ES 375 Sport and Exercise Psychology	3
ES 385 Therapeutic Modalities	2
ES 387 Reconditioning of Athletic Injuries	3
ES 420 Clinical in Athletic Training IV	1
ES 424 Advanced Athletic Training	3
ES 440 Clinical in Athletic Training V	1
ES 480 Administration of Programs in Exercise Science	3
ES 495 Research Design and Development	1
ES 496 Senior Seminar & Research in Exercise Science	2
Subtotal Specific Departmental Requirements	60
<u>Auxiliary Department Requirements:</u>	
Bio 233 Human Anatomy	3
Bio 234 Human Physiology	3
Psych 157 Introduction to Psychology	3
Subtotal Auxiliary Requirements	9
MAJOR TOTALS	69
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Candidates for admission to the Athletic Training Education Program compete for available slots within the educational program. It is possible for students to meet all admittance requirements and still not be accepted into the program. See the Program Director for further details.

FORT LEWIS COLLEGE ATHLETIC TRAINING EDUCATION PROGRAM APPLICATION CRITERIA AND PROCESS

PURPOSE OF THE APPLICATION

1. To inform interested students of the requirements for acceptance into the Fort Lewis College Athletic Training Education Program (ATEP).
2. To establish equal student opportunity for acceptance by providing comparable background information on the student applicant to the screening and acceptance committee.
3. To serve as a contract for acceptance into the Fort Lewis College Athletic Training Education Program (ATEP).

PREREQUISITES OF APPLICATION

1. Proof of enrollment in or completion of:
 - a. ES 224 – Basic Principles of Athletic Training with a grade of B or better.
 - b. ES 220 – Clinical in Athletic Training I with a grade of B or better.
 - c. ES 205 – Emergency Responder with a grade of B or better.
 - d. BIO 233 – Human Anatomy with a grade of C or better.
2. A current minimum overall grade point average of 2.5.
3. An Exercise Science grade point average of 3.0.
4. Completion of a minimum of 75 hours observation in the Fort Lewis College Athletic Training Room at the time of application.

APPLICATION PROCEDURE

All applicants for the Athletic Training Education Program must submit the following materials to the Program Director by the first Tuesday in April (for Fall admittance) or the first Tuesday after Thanksgiving (for Winter admittance):

1. Application cover sheet
2. Letter of application
3. Resume
4. A Statement of personal philosophy (Including but not limited to: personal ethics, morals, how personal background has prepared the student to be a professional)

5. Letters of recommendation:
 - a. Two from Fort Lewis College faculty members: one in the Exercise Science department (cannot be an Athletic Training faculty member); and one outside the Exercise Science department
 - b. One from an adult professional outside Fort Lewis College (excluding immediate family) who is familiar with student's professional goals and work ethic.
6. A completed Athlete Registration Packet (available in the training room).
7. A copy of all unofficial transcripts
8. Documentation of a minimum of 75 clinical hours spent in the Fort Lewis College Athletic Training Room
9. Completed technical standards document.

The ATEP Committee will evaluate the submitted materials. Applicants will be evaluated on the quality of the materials presented and grades in the required classes.

Once the application has been accepted, an interview with the screening committee will be conducted to discuss the application. A completed application and interview will not guarantee admittance into the Athletic Training Education Program.

Upon acceptance into the Athletic Training Education Program, the student will be responsible for specific programmatic fees, such as individual liability insurance (approximately \$40/year); Fort Lewis College physical (approximately \$40/year); varicella (chickenpox) vaccination, if needed (approximately \$170, one-time fee); student nametag (approximately \$10, one-time fee); Colorado Department of Education background check (approximately \$40, one-time fee); and NATA and Fort Lewis College SATA memberships, recommended.

ATHLETIC TRAINING EDUCATION PROGRAM TECHNICAL STANDARDS FOR ADMISSION

The Athletic Training Education Program at Fort Lewis College is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Educational Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency, the Commission on Accreditation of Athletic Training Education (CAATE).

All students admitted to the Athletic Training Education Program must meet the following abilities and expectations. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted to the program.

Candidates for selection to the Athletic Training Education Program will be required to verify that they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

Compliance with the program's technical standards does not guarantee a student's eligibility for the Board of Certification exam or acceptance into the Athletic Training Education Program.

Candidates for selection to the Athletic Training Education Program must demonstrate:

- The mental capacity to assimilate, analyze, synthesize and integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm; .
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely, and efficiently use the equipment and materials during the assessment and treatment of patients.
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
- The ability to record the physical examination results and a treatment plan clearly and accurately.
- The capacity to maintain composure and continue to function well during periods of high stress.
- The perseverance, diligence and commitment to complete the Athletic Training Education Program as outlined and sequenced.
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.
- Effective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

EXERCISE SCIENCE – EXERCISE SPECIALIST OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE – EXERCISE SPECIALIST OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

ES 150	Sociocultural Foundations of Human Movement	3
ES 242	Testing and Statistics	3
ES 301	Current Issues in Sport	
	OR	
ES 302	Issues in Health and Well-Being	3
ES 335	Kinesiology & Biomechanics	4
ES 340	Motor Learning & Control	3
ES 353	Nutrition for Fitness & Sport	3
ES 354	Adapted Exercise	3
ES 360	Exercise Physiology	4
ES 361	Advanced Exercise Physiology	3
ES 363	Computer Applications in Exercise Science	3
ES 450	Internship for the Exercise Specialist	3
ES 480	Administration of Programs in Exercise Science	3
ES 495	Research Design and Development	1
ES 496	Senior Seminar & Research in Exercise Science	2

Subtotal of Specific Departmental Requirements 41

Auxiliary Department Requirements:

Bio 233	Human Anatomy	3
Bio 234	Human Physiology	3
Psych 157	Introduction to Psychology	3

Subtotal of Auxiliary Requirements 9

TOTAL MAJOR REQUIREMENTS 50

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

EXERCISE SCIENCE – EXERCISE SCIENCE K-12 TEACHING OPTION

The Exercise Science K-12 Teaching option gives high-quality academic preparation to students who wish to become Colorado licensed K-12 physical education teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult an Exercise Science Department advisor as early as possible in their careers, and should read the Teacher Education Section of this catalog, pp.125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE – EXERCISE SCIENCE K-12 TEACHING OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

ES 150	Sociocultural Foundations of Human Movement	3
ES 224	Basic Principles of Athletic Training	3
ES 242	Testing and Statistics	3
ES 243	Personal Health	3
ES 250	Competencies to Teach (Tumbling, Aquatics, Fundamental Skills)	1
ES 251	Competencies to Teach (Dance, Recreational Games, Non-Traditional Sports)	1
ES 252	Competencies to Teach (Basketball, Soccer, Softball, Volleyball)	1
ES 253	Competencies to Teach (Fitness, Golf, Racquet Sports)	1
ES 301	Current Issues in Sport	
	OR	
ES 302	Issues in Health and Well-Being	3
ES 335	Kinesiology and Biomechanics	4
ES 340	Motor Learning and Control	3
ES 354	Adapted Exercise	3
ES 360	Exercise Physiology	4
ES 363	Computer Applications in Exercise Science	3
ES 375	Sport and Exercise Psychology	3
ES 381	Methods/Curric for K-12 Phy Ed	4
ES 480	Administration of Programs in Exercise Science	3
ES 495	Research Design and Development	1
ES 496	Senior Seminar and Research in Exercise Science2	

Subtotal Specific Departmental Requirements 49

Auxiliary Department Requirements:

Bio 233	Human Anatomy	3
Bio 234	Human Physiology	3
Psych 157	Introduction to Psychology	3
Psyc 254	Life Span Human Development	4

Subtotal Auxiliary Requirements 13

TOTAL MAJOR REQUIREMENTS 62

Education Courses:		
ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1
ED 424	Teaching Language & Math 7-12	3
ED 494	Student Teaching Elementary	6
ED 495	Student Teaching Secondary	6
Subtotal Education Requirements		34

NOTE: Admission to Teacher Education required for all 300- and 400-level Education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, ES 242, Bio 234, and Psyc 157). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Note: Some special grade and GPA requirements exist for admission to the Teacher Education Licensure Program and permission to student teach. See Teacher Education section for information.

EXERCISE SCIENCE – SPORT ADMINISTRATION OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN EXERCISE SCIENCE – SPORT ADMINISTRATION OPTION:

General Education 39
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

ES 150	Sociocultural Foundations of Human Movement	3
ES 242	Testing and Statistics	3
ES 301	Current Issues in Sport	3
ES 337	Sport Ethics	3
ES 339	Practicum in Sport Administration	1
ES 345	Legal Aspects of Sport and Physical Education	3
ES 363	Computer Applications in Exercise Science	3
ES 375	Sport and Exercise Psychology	3
ES 455	Internship in Sport Administration	8-12
ES 480	Administration of Programs in Exercise Science	3
ES 495	Research Design and Development	1
ES 496	Senior Seminar and Research in Exercise Science	2
Subtotal Specific Departmental Requirements		36-40

<u>School of Business Administration Requirements:</u>		
BA 260	Legal Environment of Business	3
Econ 262	Microeconomics	3
	OR	
Econ 272	Macroeconomics	3
Acc 225	Introduction to Financial Accounting	4
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
BA 347	Consumer Behavior	3
	OR	
Upper Division SOBA elective approved by ES Department Chair		3-4
Subtotal School of Business Administration Requirements		21-22

Note: A minimum of C- must be earned in 300- and 400-level School of Business Administration requirements.

Auxiliary Department Requirements:

Psych 157	Introduction to Psychology	3
Subtotal Auxiliary Requirements		3
TOTAL MAJOR REQUIREMENTS		60-65

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

NOTE: Sport Administration majors may not declare another major or minor in Business Administration

SPORT ADMINISTRATION COMPETITIVE ADMISSION REQUIREMENTS:

1. Sophomore standing
2. Written letter of application in approved business format stating objectives
3. Interview with faculty committee
4. Cumulative GPA of 2.50
5. Two letters of recommendation
6. One character reference from an adult mentor
7. One Fort Lewis College faculty reference detailing professional potential
8. Current professional resume

SPORT ADMINISTRATION INTERNSHIP REQUIREMENTS:

1. Senior standing
2. Major GPA of 2.50
3. Completion of all major course work

EXERCISE SCIENCE – COACHING MINOR

REQUIREMENTS FOR A MINOR IN COACHING:

A student majoring in any discipline may complete a minor in Coaching upon satisfactorily completing the following requirements:

Required Courses:

ES 185	Introduction to Coaching	2
ES 224	Basic Principles of Athletic Training	3
ES 225-231	Techniques of Coaching — 2 courses	4
ES 233-238	Officiating – 2 courses	2
ES 389	Coaching Internship	2

And one of the following Elective Courses:

¹ ES 335	Kinesiology & Biomechanics	4
ES 337	Sport Ethics	3
¹ ES 340	Motor Learning & Control	3
¹ ES 345	Legal Aspects of Sport/PE	3
¹ ES 353	Nutrition in Fitness and Sport	3
¹ ES 360	Exercise Physiology	4
¹ ES 375	Sport and Exercise Psychology	3
ES 480	Administration of Programs Exercise Science	3

¹These courses require at least one prerequisite.

TOTAL REQUIREMENTS FOR COACHING MINOR 16-17

EXERCISE SCIENCE MINOR

REQUIREMENTS FOR A MINOR IN EXERCISE SCIENCE:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Exercise Science may complete a minor in Exercise Science upon satisfactorily completing the following requirements:

Bio 233	Human Anatomy	3
Bio 234	Human Physiology	3
Psyc 157	Introduction to Psychology	3
ES 150	Sociocultural Foundations of Human Movement	3
ES 335	Kinesiology and Biomechanics	4
ES 360	Exercise Physiology	4
Two Additional Upper-Division Exercise Science Courses		4-6

TOTAL REQUIRED FOR EXERCISE SCIENCE MINOR 24-26

ADVENTURE EDUCATION

Adventure Education (AE) course listings begin on page 141.

Program Director: Bob Stremba

Through the interdisciplinary umbrella of the liberal arts, Adventure Education prepares students in the scholarship, communication, and technical skills for a variety of professional leadership and instructional opportunities. Students learn how to lead and teach in a variety of settings that use outdoor and adventure environments to promote positive change in individuals, organizations, and society. They learn how to use human-powered outdoor pursuits including backpacking, ropes-challenge courses, rock climbing, mountaineering, and river paddling to expose individuals and groups to new growth opportunities. Students develop the leadership, teaching, and facilitation skills to promote a sustainable environment and help others apply challenge and adventure to a broader life context. Adventure Education students study the “why” behind the “what,” the theory and philosophy underlying challenge and adventure, to be critical thinkers and informed professionals.

Adventure Education, as a profession and an academic major, is demanding and requires serious commitments of time, energy, scholarship, and professionalism. A block semester includes a 15-credit package of courses where students are in the mountains, canyons, and on the rivers several days and weeks at a time, and in full-day class sessions throughout the entire semester. Adventure Education students also have options of taking a semester course at Outward Bound or the National Outdoor Leadership School (NOLS), or spending a semester studying abroad. To earn course credit, such experiences must occur after the student’s matriculation into the program.

Along with the 24/7, semester-long commitments described above, many of the field-based courses occur on weekends, over College breaks, and in summer sessions. Therefore, the schedule for Adventure Education students may limit extra-curricular and job involvements some semesters. Students must complete a minimum of 60 days of pre-approved, documented adventure leadership and instruction experience prior to the Internship and have a minimum 2.5 grade point average. Prior to the Practicum, 30 days of pre-approved, documented adventure

leadership and instruction experience is required. This leadership/instruction experience must occur after the student’s matriculation into the Adventure Education program. Some of this experience will be gained through Adventure Education course work, while some must be accrued through summer jobs in camps or outdoor programs. Students are encouraged to actively participate in the Fort Lewis College Outdoor Pursuits co-curricular program.

The Adventure Education major is academically rigorous and prepares students for professional positions in leadership, instruction, and administration with school and college outdoor programs; with non-profit and commercial outdoor education organizations; and with therapeutic adventure, environmental, and community recreation programs.

ADVENTURE EDUCATION PROGRAM ADMISSION REQUIREMENTS

The professional adventure educator must be competent in a variety of technical, instructional, leadership, and intellectual skills. In order to properly prepare students for this profession, and to help ensure that students are able to maintain satisfactory academic progress (which includes space available in scheduled courses), students must first declare Adventure Education as their major or minor before being able to enroll in Adventure Education courses. After completing the Adventure Education 100-level courses described below, students must meet program admission requirements to remain in the degree. Upon admission to the program, there are continuing grade and course prerequisites required for enrollment in subsequent Adventure Education courses.

All applicants for the Adventure Education program must submit the following materials to the program director by the Tuesday following spring break in March (for Fall admittance) or the second Tuesday in November (for Winter admittance). Once the application has been received, an interview with a faculty screening committee will be conducted to discuss the application. A completed application, interview, and meeting all admittance requirements does not necessarily guarantee acceptance into the program.

1. Proof of enrollment in or completion of:
 - a. AE 101—Foundations of Adventure Education with a grade of C+ or better.
 - b. Two of the following courses with a grade of C+ or better: AE 121 Top Rope Climbing; AE 131 Paddling Fundamentals; AE 141 Backcountry Skiing; AE 151 Challenge Course Fundamentals.
2. A current minimum overall grade point average of 2.5, and a minimum Adventure Education grade point average of 2.5
3. Completed application form, which includes a statement of personal and professional philosophy related to adventure education.
4. A current professional résumé and two letters of recommendation, one from a Fort Lewis College faculty member (excluding Adventure Education faculty), and one from an adult professional (excluding immediate family) who is familiar with the student's professional goals and work ethic.
5. A copy of all unofficial college transcripts.
6. Interview with faculty screening committee.

Students applying for admission to the Adventure Education program while they are still completing the courses described in #1, above, may be granted conditional admission until proof of completing these courses with grades of C+ or higher is provided, along with proof of 2.5 grade point averages overall and in Adventure Education courses. Students not meeting these admittance requirements must select a different major.

ADVENTURE EDUCATION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ADVENTURE EDUCATION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

I. CORE COURSES

AE 101	Foundations of Adventure Education	3
AE 201	Wilderness Expedition (1)	3
AE 210	Adventure Leadership (1)	3
AE 220	Adventure Instruction (1)	3
AE 230	Wilderness First Responder (1)	3
AE 310	Philosophy & Theory of Adventure Education	3
AE 350	Adventure Processing and Facilitation	3
AE 450	Organization & Admin. of Adventure Education	3
ES 242	Testing & Statistics	3
ES 495	Research Design and Development	1
ES 496	Senior Seminar & Research Ex Sci	2

(1) AE 201, AE 210, AE 220, AE 230 and AE 310 are a 15-credit block of courses taken as co-requisites fall semester. AE 201, AE 210 and AE 220 are a 9-credit block of courses that can be taken as co-requisites

first summer session. During these block terms, students are not able to enroll in any additional courses, and there may be limitations on extracurricular or job involvements.

II. BASIC SKILLS COURSES. Choose any two from the list below:

AE 121	Top Rope Rock Climbing	2
AE 131	Paddling Fundamentals	2
AE 141	Backcountry Skiing	2
AE 151	Challenge Course Fundamentals	2

III. ADVANCED COURSES. Choose any two from the list below:

AE 321	Lead Rock Climbing	3
AE 325	Mountaineering	3
AE 331	Advanced Paddling	3
AE 341	Winter Backcountry Travel	3
AE 360	Special Topics in Adventure Ed: Skills	3
AE 361	Special Topics in Adventure Ed: Profession	3

IV. PROFESSIONAL PREPARATION COURSES. Complete 12 credits from the following:

AE 380	Adventure Education Practicum	1-6
AE 480	Adventure Education Internship	6-12

Subtotal Specific Departmental Requirements 52

Auxiliary Requirements from Other Departments:

Complete at least six credits, of which at least one course must be upper division, from the list below:

Anth 330	Prehistory of the Southwest	3
Anth 356	Ecological Anthropology	4
BA 330	Tourism & Resort Management	4
Bio 125	Conservation Biology	3
Bio 250	Ecology of the Southwest	4
Chem 125	Environmental Chemistry	3
Engl 180	Literature of the Environment	4
Geog 320	North American Landscape	3
Geog 335	Weather & Climate	3
Geol 107	Earth Systems Science	4
Geol 113	Physical Geology	4
Geol 150	Geology of the Southwest	3
Phil 252	Environmental Ethics	4
PhSc 205	Introduction to Astronomy	3
PhSc 200	Introduction to Astronomy Lab	1
PhSc 206	Introduction to Astronomy	4
Psyc 260	Environmental Psychology	4
SW 333	Wilderness in America	3
SW 335	National Parks: Amer's Best Idea	3

Subtotal Other Departmental Requirements 6

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Candidates for admission to the Adventure Education program compete for available spots within the degree program. It is possible for students to meet all admittance requirements and still not be accepted into the program. See the Program Director for further details.

ADVENTURE EDUCATION MINOR

The minor in Adventure Education is intended to allow students in a variety of majors to include an outdoor component to their content area. To allow students the flexibility to configure the minor to their own particular interest in their major field of study, a core curriculum will be presented with a companion list of basic adventure skills and auxiliary department courses.

REQUIREMENTS FOR A MINOR IN ADVENTURE EDUCATION:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Adventure Education may complete a minor in Adventure Education upon satisfactorily completing the following requirements:

Complete the following courses:

AE 101	Foundations of Adventure Education	3
AE 230	Wilderness First Responder	3
AE 310	Philosophy & Theory of Adventure Education	3
AE 350	Adventure Processing and Facilitation	3

Choose any two courses from the list below:

AE 121	Top Rope Rock Climbing	2
AE 131	Paddling Fundamentals	2
AE 141	Backcountry Skiing	2
AE 151	Challenge Course Fundamentals	2

Auxiliary Requirements from Other Departments:

Complete at least three credits from the list below:

Anth 330	Prehistory of the Southwest	3
Anth 356	Ecological Anthropology	4
Bio 125	Conservation Biology	3
Bio 250	Ecology of the Southwest	4
BA 330	Tourism & Resort Management	4
Chem 125	Environmental Chemistry	3
Engl 180	Literature of the Environment	4
Geog 320	North American Landscape	3
Geog 335	Weather & Climate	3
Geol 107	Earth Systems Science	4
Geol 113	Physical Geology	4
Geol 150	Geology of the Southwest	3
Phil 252	Environmental Ethics	4
PhSc 205	Introduction to Astronomy	3
PhSc 200	Introduction to Astronomy Lab	1
PhSc 206	Introduction to Astronomy	4
Psyc 260	Environmental Psychology	4
SW 333	Wilderness in America	3
SW 335	National Parks: Amer's Best Idea	3

TOTAL REQUIREMENTS FOR THE ADVENTURE EDUCATION MINOR

19-20

GENDER & WOMEN'S STUDIES

Course listings for Gender & Women's Studies (WS) begin on page 204.

Director - Michele Malach

Professors - Kathleen S. Fine-Dare, Kathryn Moller, Susan Moss, and Carol L. Smith

Associate Professors - Alane S. Brown, Janine M. Fitzgerald, Jennifer A. Gehrman, Michele M. Malach, Delilah Orr, Sarah Roberts-Cady, and Jan E. Sallinger

Assistant Professors – John Baranski, Keri Brandt, Marcelyn Jung, and Michael T. Martin

The Gender and Women's Studies (G/WS) major approaches the study of gender - including masculinity, women's equality, human sexuality, and human sexual orientation - from a deeply interdisciplinary perspective. Informed by feminist and other critical theories, the G/WS curriculum is committed to honest and productive discussions about the key role of gender in social life; the interplay of race, class, and gender in the construction of meaning; and the reasons that unequal access to resources and power persists in the world. Central to a G/WS program are respect for diversity; a concern for social justice; and an exploration of alternative ways of achieving self-expression, conducting research, and working in the world. The major is designed to fit squarely within a liberal arts tradition as well as to prepare students for careers in arenas where addressing social inequality is important.

GENDER AND WOMEN'S STUDIES

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN GENDER & WOMEN'S STUDIES:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

I. CORE COURSES

WS 101	Intro to Gender & Women's Studies	4
WS 301	Feminist and Gender Theories	4
WS 332	Women in American History	4
WS 355	Anthropology of Gender	4
WS 496	Gender and WS Senior Seminar	2

Subtotal Core 18

II. APPLICATIONS

Choose any TWO from the list below OR ONE from the list below plus ONE Practicum from the PRACTICUM STUDY list:

WS 280	Issues in Women's Health	4
WS 351	Gender and Work	4
WS 365	Women and Development	3

PRACTICUM STUDY: Students may register for an internship or practicum in any field, as long as the project undertaken is Gender/Women's Studies-related. Be sure to check prerequisites for all courses. (Students must receive approval from the Gender/Women's Studies Director before signing up for internship or practicum credit). Students must sign up for a minimum of two credits and a maximum of six credits in one of the following (NOTE: If the course has variable credit, the student must select the appropriate number of credits when registering.):

ANTH 316	Internship in Anthropology	1-6
BIO 480	Internship in Biology	1-3
BA 437	Internship in Business	3
ED 488	Seminar & Practicum in College Teaching	2-3
ENGL 258	Practicum - Service Learning	1-6
ENGL 358	Practicum - Service Learning	1-6
ES 450	Internship Exercise Specialist	3
SOC 320/WS 320	Community Service Practicum/Women's Studies Practicum	1-16

(Soc 320 may be taken for 4 credits to fulfill a G/WS major requirement when the project is approved in advance by the G/WS Director; this course is the same as WS 320; credit will be given for only one of these courses)

Subtotal Applications 5-10

III. DISCIPLINARY EXPLORATIONS

Choose FOUR courses from the list below. Three of the four must be from different disciplines; two of the four must be numbered above 300; 6-8 credits. Appropriate courses numbered 190/390 and 191/391 may also count, if approved in advance by the G/WS Director.

Anthropology

Anth 217 Cultural Images of Women and Men 4

Art

Art/WS 366 Women, Art, and Visual Culture 4

(These are the same; credit will be given for only one.)

Biology

Bio 132 Human Sexuality 3

English

Engl 175 Women's Literature 4

Gender/Women's Studies approved topics courses in Engl 317,

337, 345, 346, 380, 420 and 477 4

(A list of Gender/Women's Studies approved courses is produced each term. Examples include Engl 380 Native American Literature: Contemporary Female Writers; Engl 420 World Literary Traditions: Topics: Contemporary Latin American Women's Literature; Engl 423 Genres: Topics, etc.)

History

Hist 354 Women, Family & Gender in Chinese Hist 4

Hist 368 Medieval Women 4

Modern Languages

ML 308 Topics in French Literature 3

(Topic must be approved by Gender/Women's Studies)

ML 334 Topics in German Literature 3

(Topic must be approved by Gender/Women's Studies)

Philosophy		
Phil 365	Philosophies of Feminism	3
Political Science		
PS 365	Women and Development	3
(PS 365 is the same as WS 365; a student may receive credit for only one of these courses)		
Psychology		
Psyc 270	Psychology of Gender	4
Sociology		
Soc 275	Families, Marriages, and Other Sex Role Systems	4
Soc 279	Ethnicity, Gender, and Class in the Southwest	4
Soc 300	Theories of Social and Personal Life	4
Soc 383	Women in Society	4
Subtotal Disciplinary Explorations		12-16
TOTAL MAJOR REQUIREMENTS		35-44
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

GENDER & WOMEN'S STUDIES MINOR

REQUIREMENTS FOR A MINOR IN GENDER & WOMEN'S STUDIES:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Gender and Women's Studies may complete a minor in Gender and Women's Studies upon satisfactorily completing the following requirements:

I. CORE COURSES

WS 101	Introduction to Women's Studies	4
WS 301	Feminist and Gender Theories	
	OR	
WS 332	Women in American History	4
WS 496	Gender & WS Senior Sem	
	OR	
WS 499	Individualized Study	2
Total Core		10

II. APPLICATIONS

(Choose one; 3-6 credits)		
WS 280	Issues in Women's Health	4
WS 351	Gender and Work	4
WS 355	Anthropology of Gender	4
WS 365	Women and Development	3
WS 320	Women's Studies Practicum*	4-6

*NOTE: Students may take WS 320 only if they are enrolled in the Sociology Block Program. Students wishing to have an internship or practicum experience outside of Sociology may sign up for an internship or practicum course in another department, as long as the project undertaken is gender-related. (See the Gender and Women's Studies Director to receive approval before signing up.) Examples of such courses include: Anth 316 Internship in Anthropology; Engl 258/358 Practicum - Service Learning; and ES 450 Internship Exercise

Specialist. Students should look closely at the prerequisites for any of these courses before attempting to sign up. Students may not apply more than 6 credits of internship or practicum experience to the Gender and Women's Studies minor.

III. DISCIPLINARY EXPLORATIONS

Choose two from the following list, one of which must be numbered above 300; 6-8 credits. Courses numbered 190/390 and 191/391 may also count, if approved.

Anthropology		
Anth 217	Cultural Images of Women and Men	4
Anth 355	Anthropology of Gender	4
(Anth 355 is same as WS 355; a student may receive credit for only one of these courses)		
Art		
Art/WS 366	Women, Art, and Visual Culture	4
(These are the same; credit will be given for only one.)		
Biology		
Bio 132	Human Sexuality	3
English		
Engl 175	Women's Literature	
Gender/Women's Studies approved topics courses in Engl 317, 337, 345, 346, 380, 420 and 477		
		4
(A list of Gender/Women's Studies approved courses is produced each term. Examples include Engl 380 Native American Literature: Contemporary Female Writers; Engl 420 World Literary Traditions: Topics: Contemporary Latin American Women's Literature; Engl 423 Genres: Topics, etc.)		
History		
Hist 332	Women in American History	4
(Hist 332 is same as WS 332; a student may receive credit for only one of these courses)		
Hist 354	Women, Family & Gender in Chinese Hist	4
Hist 368	Medieval Women	4
Modern Languages		
ML 308	Topics in French Literature	3
(Topic must be approved by Gender and Women's Studies)		
ML 334	Topics in German Literature	3
(Topic must be approved by Gender and Women's Studies)		
Philosophy		
Phil 365	Philosophies of Feminism	3
Political Science		
PS 365	Women and Development	3
(PS 365 is same as WS 365; a student may receive credit for only one of these courses)		
Psychology		
Psyc 270	Psychology of Gender	4
Sociology		
Soc 275	Families, Marriages, and Other Sex Role Systems	4
Soc 279	Ethnicity, Gender, and Class in the Southwest	4
Soc 300	Theories of Social and Personal Life	4
Soc 383	Women in Society	4

TOTAL REQUIRED FOR GENDER & WOMEN'S STUDIES MINOR

19-24

GEOGRAPHY

Course Listings for Geography (GEOG) begin on page 170.

GEOSCIENCES

Course listings for Geology (GEOL) begin on page 170.

Department Chair - James D. Collier

Professors - James D. Collier and Ray Kenny

Associate Professors - Gary L. Gianniny, David A. Gonzales, Kimberly A. Hannula, and Scott White

The Geosciences department offers a Bachelor of Science degree in Geology with three different options: Geology, Environmental Geology, and Earth Science for Secondary Teachers. The Geology option is designed to meet the needs of students wishing to continue their education in graduate school or to work as professional geologists. The Environmental Geology option is designed for students planning to work in the areas of natural resource management and environmental impact assessment and remediation. The Earth Science for Secondary Teachers option is designed for students whose specific goal is to teach earth science at the secondary school level. To obtain requirements for teacher certification, please contact the Teacher Education Department.

The study of geosciences at Fort Lewis College is strengthened by the College's proximity to the remarkable natural geological laboratory in the Southern Rocky Mountains and adjacent areas of the Southwest. The Grand Canyon, Monument Valley, Shiprock, and the San Juan volcanic field and mining district are representative of classical geological localities nearby. The numerous outcrops and mine and oil field workings are sources of excellent real-world experiences for students. Also, the sequence of rocks in the Animas River Valley represents literally hundreds of millions of years of earth history. Laboratory and field equipment and geological holdings in the College library are available for research and reading.

Advanced graduate work in geology is required for positions in state and federal surveys, petroleum and mining companies, and college teaching. Employment with engineering firms, governmental agencies, mining companies, and environmental consulting organizations, among others, is available for persons with bachelor's degrees in geology and environmental geology.

The department also has course offerings in Geography. Geography classes are recommended for those students who wish to enhance their understanding of such topics as geopolitics, world cultures, globalization, weather and climate, natural landscapes and mountain environments, in addition to technical topics such as computer mapping and Geographic Information Systems (GIS).

A minor in geology is available for students majoring in other disciplines. Requirements for a minor in geology are listed at the end of this section.

GEOGRAPHIC INFORMATION SYSTEMS CERTIFICATE

A Certificate Program in Geographic Information Systems is also offered. A Geographic Information System (GIS) is a large digital map database and software program that includes an integrated set of tools for storing, querying, analyzing, and displaying geo-referenced information. GIS merges theoretical and practical aspects of spatial analysis across many different disciplines, such as environmental biology, geology, archaeology, agriculture, engineering, computer science, business administration, and, of course, geography. A GIS is used to build cartographic databases, create attributes for map information, and analyze and visualize complex spatial relationships in the mapped information. Students enrolled in the GIS Certificate Program take courses in which they gain valuable experience using industry-standard GIS software, as well as familiarity with various modern field mapping procedures, such as Global Positioning System (GPS) units. Surveying, remote sensing and computer science courses provide additional fundamental skills related to GIS. Completion of the GIS Certificate will provide the student with skills and experience that are in high demand in today's workplace.

For more information on the GIS Certificate, visit the program's website:

<http://geo.fortlewis.edu/GIS/certificate.html>

GEOLOGY – GEOLOGY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY – GEOLOGY OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Geol 107	Earth Systems Science OR	
Geol 113	Physical Geology	4
Geol 114	Historical Geology	4
Geol 202	Geologic Methods	2
Geol 207	Mineralogy	3
Geol 208	Optical Mineralogy	4
Geol 210	Petrology	4
Geol 323	Geomorphology	4
Geol 333	Introductory Paleontology	3
Geol 337	Structural Geology	4
Geol 361	Stratigraphy and Sedimentation	4
Geol 380	Technical Writing in Geology	3
Geol 405	Geologic Data Analysis	4
Geol 441	Field Geology	6
Geol 496	Senior Seminar I – Research	1
Geol 497	Senior Seminar II – Thesis	2

Subtotal Specific Departmental Requirements 52

Auxiliary Requirements:

Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II OR	4
Geol 420	Introduction to Geochemistry	3
Math 221	Calculus I	4
Phys 201	Physics - Non Calc I OR	4
Phys 217	Physics for Science and Engineering I	5

One of the following:
Math 201, Math 222, BA 253, or Psys 241 4

Subtotal Auxiliary Requirements 19-21

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

GEOLOGY – ENVIRONMENTAL GEOLOGY OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY – ENVIRONMENTAL GEOLOGY OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Geol 107	Earth Systems Science OR	
Geol 113	Physical Geology	4
Geol 114	Historical Geology	4
Geol 202	Geologic Methods	2
Geol 207	Mineralogy	3
Geol 210	Petrology	4
Geog 250	Intro Computer Mapping/GIS	4
Geol 323	Geomorphology	4
Geol 337	Structural Geology	4
Geol 361	Stratigraphy and Sedimentation	4
Geol 380	Technical Writing in Geology	3
Geol 420	Introduction to Geochemistry	3
Geol 430	Engineering Geology	3
Geol 435	Groundwater Geology	4
Geol 441	Field Geology	6
Geol 496	Senior Seminar I – Research	1
Geol 497	Senior Seminar II – Thesis	2

Subtotal Specific Departmental Requirements 55

Auxiliary Requirements:

Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Math 221	Calculus I	4
Phys 201	Physics - Non Calc I OR	4
Phys 217	Physics for Science and Engineering I	5

One of the following:
Math 201, Math 222, BA 253, Psys 241, or Geol 405 4

Subtotal Auxiliary Requirements 20-21

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

GEOLOGY – EARTH SCIENCE FOR SECONDARY TEACHERS OPTION

The Geology - Earth Science for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 science teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Geosciences Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY – EARTH SCIENCE FOR SECONDARY TEACHERS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Geog 335	Weather and Climate	3
Geol 107	Earth Systems Science	4
Geol 114	Historical Geology	4
Geol 180	Oceanography	3
Geol 202	Geologic Methods	2
Geol 207	Mineralogy	3
Geol 210	Petrology	4
Geol 323	Geomorphology	4
Geol 332	Plate Tectonics	3
Geol 333	Introductory Paleontology	3
Geol 380	Technical Writing in Geology	3
Geol 496	Senior Seminar I	1
Geol 497	Senior Seminar II Thesis	2

Subtotal Specific Departmental Requirements 39

Auxiliary Department Requirements:

Bio112	Intro to Organismic & Evol Bio	4
Chem 150	Fundamentals of Chemistry I	4
Math 110	College Algebra	4
Phys 201	Physics – Non-Calculus I	4
PhSc206	Intro to Astronomy	4

Subtotal Auxiliary Department Requirements 20

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Class I Lab	1

ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Class II Lab	1
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
ED 495	Student Teaching Secondary	12

Subtotal Education Requirements 39

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

TOTAL REQUIRED FOR GRADUATION **120-126****

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., Geog 335, ED 222, Bio 112, and Math 110). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

PREPARATION FOR GRADUATE SCHOOL

The following additional courses are recommended for Geology majors who plan to attend graduate school:

Geol 332	Plate Tectonics
Geol 405	Geologic Data Analysis and Modeling by Computer French, German, or Spanish
Engr 205	Surveying I
Engr 103	Computer Aided Drafting
Phys 202	Physics - Non Calculus II
Math 222	Calculus II

GEOLOGY MINOR

REQUIREMENTS FOR A MINOR IN GEOLOGY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Geology may complete a minor in Geology upon satisfactorily completing the following requirements:

Specific Departmental Requirements:

Geol 113	Physical Geology	
	OR	
Geol 107	Earth Systems Science	4
Geol 114	Historical Geology	4
Geol 207	Mineralogy	3
Geol 210	Petrology	4
	Upper-division Geology electives	10

TOTAL REQUIREMENTS FOR GEOLOGY MINOR **25**

HISTORY

Course listings for History (HIST) begin on page 173.

Department Chair – Neil McHugh

Professor - Neil McHugh

Associate Professor - Michael F. Fry

Assistant Professors - John Baranski, Michael Martin, and Ellen Paul

The Department of History offers a wide variety of courses that will enhance students' understanding and appreciation of the human past. The study of history promotes tolerance between peoples and helps make the world and our lives more intelligible. We are the wiser for knowing that our belief systems, institutions, and conflicts have their roots in the past. Courses in the history of Africa, East Asia, Latin America, and the Middle East introduce the creative achievements of other civilizations. Through the exploration of our own national experience and the history of western civilization, students gain a deeper understanding of the historic foundations underlying the challenges we face in our own time.

Students of history learn to collect and interpret data, develop logical and convincing arguments, and to write with clarity and economy. A degree in history provides a solid foundation for students seeking careers in teaching, archival management, library science, law, politics, international affairs and governments, as well as the training needed for success in graduate school.

Courses numbered 100 are broad topical courses; 200-level courses are "survey" courses providing overviews of the history of regions and periods. These are the foundation courses for history majors. Courses designated 300-level explore more specialized topics and assume background in lower-division history courses. Courses at the 400-level courses are conducted as seminars and provide the advanced instruction required for the Senior Research Seminar. The courses described are those offered on a regular basis. From time to time, the department offers new courses. Students should check the full list of courses published by the department at the time of registration.

History majors are required to take 14 history courses totaling 44-48 credits. Majors must concentrate in one of the areas listed below. Under special circumstances, a student may propose a student-constructed concentration. This special option requires the approval of the department chair.

Students majoring in history may be certified to teach social studies at the secondary level. To obtain requirements for teacher certification, please contact the Teacher Education Department.

GOALS AND OBJECTIVES

- Familiarize students with the history of human experience in at least three regions of the world.
- Provide students with particular competence in their area of concentration including a factual base of information, familiarity with the important historiographical and interpretive concerns of historians of that area, and an ability to synthesize their understanding around recurrent historical themes.
- Encourage an understanding of how different societies in different times and places have constructed class, race, and gender.
- Encourage development of critical thinking skills – thinking that is rigorous, fair-minded, and nuanced.
- Foster the research and writing skills that enable students to define a suitable topic, conduct thorough and resourceful searches for relevant information, and express their findings in writing in a clear, persuasive, and interesting fashion.
- Cultivate in students an understanding of the complex epistemological challenges involved in studying history.

Help students appreciate that a historical understanding of the human experience can contribute in vital ways to a responsible and reflective life.

HISTORY – EUROPEAN OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY – EUROPEAN OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Two European survey courses (6 credits):
Hist 160 Survey of Western Civilization I 3
Hist 261 Survey of Western Civilization II 3

Two non-European surveys, one in U.S. and one in World; at least one of the two must be History 140, 150, 170, 270, or 280 (from the groups below - 6 credits):

One course from the following (U.S.):
Hist 280 Survey of US History, 1600-1877 3
Hist 281 Survey of US History, 1877-Present 3

One course from the following (World):
Hist 140 Survey of African History I 3
Hist 141 Survey of African History II 3
Hist 150 World Civilization I 3
Hist 151 World Civilization II 3
Hist 170 Survey of East Asian Civilization I 3
Hist 171 Survey of East Asian Civilization II 3
Hist 270 Colonial Latin America 3
Hist 271 Latin America Since Independence 3

Hist 396 Philosophy and Methods 4
Hist 496 Research Senior Seminar 4

Subtotal Specific Departmental Requirements 20

Other Departmental Requirements:

Three upper division European courses chosen from the following (9-12 credits):
Hist 302 Ancient Rome 4
Hist 308 Rise of Christianity 4
Hist 359 Medieval Europe 4
Hist 360 Renaissance Europe 4
Hist 361 Czarist Russia 4
Hist 362 Rise & Fall of Soviet Union 4
Hist 364 Germany: Roman Times to 1919 4
Hist 365 Germany, 1919 to Present 4
Hist 366 Hitler and the Holocaust 3
Hist 368 Medieval Women 4
Hist 382 Reformation Europe and Wars of Religion 4
Hist 465 Advanced Studies in European History 3

Three upper division Non-European courses, one must be World, one must be U.S. (9-12 credits):

World

Hist 342	West Africa	4
Hist 343	Ancient Nile Valley	4
Hist 344	Northeast Africa	4
Hist 346	South Africa	4
Hist 348	Africans in the Americas	4
Hist 349	Islam in History	4
Hist 351	U.S.-East Asian Relations	4
Hist 352	Modern China	4
Hist 354	WomenFamilyGender/ChineseHist	4
Hist 355	East Asian Popular Religion	4
Hist 356	History of Japan	4
Hist 371	History of Central America	4
Hist 372	U.S.-Latin American Relations	4
Hist 373	History of Mexico	4
Hist 446	Ancient Israel and Judah	3
Hist 475	Advanced Studies in Latin American History	3

United States

Hist 311	Colonial and Revolutionary Am, 1492-1789	4
Hist 314	Inventing America, 1789-1850	4
Hist 315	Irish, Catholic, American	4
Hist 316	Civil War America	4
Hist 318	Emergence of Modern America, 1893-1939	4
Hist 322	Western American Mining	3
Hist 324	Colorado History	3
Hist 326	Baseball and the American Dream	4
Hist 331	Politics of Poverty in U.S.	4
Hist 332	Women in American History	4
Hist 333	America Since 1945	4
Hist 334	United States and Vietnam	4
Hist 335	Work and Workers in the U.S.	4
Hist 337	Cultural and Intellectual Hist in the 20th Cent	4
Hist 485	Advanced Studies in United States History	3

Subtotal Other Departmental Requirements 18-24

Total required in major 38-44

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Recommended Courses:

History majors are strongly urged to take two courses in one modern language, and courses in Anthropology, Art (in particular Art History), Economics, English, Geography, Philosophy, Political Science, Psychology, Sociology, and Southwest Studies (of particular interest, SW 340 Archival Theory & Practice and SW 341 Oral History: Theory and Practice).

HISTORY – UNITED STATES OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY – UNITED STATES OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Two U.S. survey courses (6 credits):

Hist 280	Survey of US History, 1600-1877	3
Hist 281	Survey of US History, 1877-Present	3

Two non-U.S. surveys, one in Europe and one in World; at least one of the two must be History 140, 160, 170, or 270 (from the groups below - 6 credits):

One course from the following (Europe):

Hist 160	Survey of Western Civilization I	3
Hist 261	Survey of Western Civilization II	3

One course from the following (World):

Hist 140	Survey of African History I	3
Hist 141	Survey of African History II	3
Hist 170	Survey of East Asian Civilization I	3
Hist 171	Survey of East Asian Civilization II	3
Hist 270	Colonial Latin America	3
Hist 271	Latin America Since Independence	3

Hist 396	Philosophy and Methods	4
Hist 496	Research Senior Seminar	4

Subtotal Specific Departmental Requirements 20

Other Departmental Requirements:

Three upper division U.S. History courses chosen from the following (9-12 credits):

Hist 311	Colonial and Revolutionary Am, 1492-1789	4
Hist 314	Inventing America, 1789-1850	4
Hist 315	Irish, Catholic, American	4
Hist 316	Civil War America	4
Hist 318	Emergence of Modern America, 1893-1939	4
Hist 322	Western American Mining	3
Hist 324	Colorado History	3
Hist 326	Baseball and the American Dream	4
Hist 331	Politics of Poverty in U.S.	4
Hist 332	Women in American History	4
Hist 333	America Since 1945	4
Hist 334	United States and Vietnam	4
Hist 335	Work and Workers in the U.S.	4
Hist 337	Cultural and Intellectual Hist in the 20th Cent	4
Hist 485	Advanced Studies in United States History	3

Three upper division Non-U.S. courses, one must be World, one must be European (9-12 credits):

World

Hist 342	West Africa	4
Hist 343	Ancient Nile Valley	4
Hist 344	Northeast Africa	4

Hist 346	South Africa	4
Hist 348	Africans in the Americas	4
Hist 349	Islam in History	4
Hist 351	U.S.-East Asian Relations	4
Hist 352	Modern China	4
Hist 354	Women/Family/Gender/Chinese/Hist	4
Hist 355	East Asian Popular Religion	4
Hist 356	History of Japan	4
Hist 371	History of Central America	4
Hist 372	U.S.-Latin American Relations	4
Hist 373	History of Mexico	4
Hist 446	Ancient Israel and Judah	3
Hist 475	Advanced Studies in Latin American History	3

Europe

Hist 302	Ancient Rome	4
Hist 308	Rise of Christianity	4
Hist 359	Medieval Europe	4
Hist 360	Renaissance Europe	4
Hist 361	Czarist Russia	4
Hist 362	Rise & Fall of Soviet Union	4
Hist 364	Germany: Roman Times to 1919	4
Hist 365	Germany, 1919 to Present	4
Hist 366	Hitler and the Holocaust	3
Hist 368	Medieval Women	4
Hist 382	Reformation Europe and Wars of Religion	4
Hist 465	Advanced Studies in European History	3

Subtotal Other Departmental Requirements 18-24

Total required in major 38-44

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Recommended Courses:

History majors are strongly urged to take two courses in one modern language, and courses in Anthropology, Art (in particular Art History), Economics, English, Geography, Philosophy, Political Science, Psychology, Sociology, and Southwest Studies (of particular interest, SW 340 Archival Theory & Practice and SW 341 Oral History: Theory and Practice).

HISTORY – SOCIAL STUDIES FOR SECONDARY TEACHERS OPTION

The Social Studies for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 social studies teachers. Students who complete this option become licensed to teach history, geography, political science, economics, anthropology, sociology, and psychology in grades 7-12. This option is extremely demanding and requires careful planning and advising. Students choosing

this option should consult a History Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY – SOCIAL STUDIES FOR SECONDARY TEACHERS OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

HIST 280	Survey U.S. Hist, 1600-1877	3
HIST 281	Survey U.S. Hist, 1877-Present	3
HIST 140 or 150		3

Choose one history course from the following: HIST 141, 151, 170, 171, 160, 261, 270, or 271	3
-------------------------------------------------------------------------------------------------	---

Choose at least one of the following World History courses (list 1): HIST 342, 343, 344, 346, 348, 349, 440, 446	4
---------------------------------------------------------------------------------------------------------------------	---

Choose at least one of the following European History courses: HIST 302, 306, 308, 359, 360, 361, 362, 363, 364, 365, 366, 368, 382, 465	4
---------------------------------------------------------------------------------------------------------------------------------------------	---

Choose at least one of the following World History courses (list 2): HIST 351, 352, 354, 355, 356, 371, 372, 373, 450, or 475	4
----------------------------------------------------------------------------------------------------------------------------------	---

Choose at least two of the following U.S. History courses: HIST 311, 314, 316, 318, 331, 332, 333, 334, 335, 337, 485	8	
HIST 396	Philosophy and Methods	4
HIST 496	Research Seminar	4

Subtotal Specific Departmental Requirements 40

Auxiliary Requirements:

Econ 262 and 272; or Econ 170	4-6	
Geog 271	World Regional Geography	4
PS 110	U.S. National Government	4
Psyc 157	Intro to Psychology	3
One sociology course or one anthropology course	3-4	

Subtotal Auxiliary Requirements 18-21

TOTAL MAJOR REQUIREMENTS 58-61

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1

ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
Ed 495	Student Teaching Secondary	12
Subtotal Education Requirements		37

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

Recommended but Not Required:

ED 377	Technology in Education	2
Two semesters of a modern language		8

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Hist 280, Hist 281, and Psyc 157). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

Note to all students: If you have taken any of the major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

HISTORY – WORLD OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY – WORLD OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

A two-course survey sequence in the World Option: 6 credits

Hist 140	Survey of African History I	3
Hist 141	Survey of African History II	3
OR		
Hist 150	World Civilization I	3
Hist 151	World Civilization II	3
OR		
Hist 170	Survey of East Asian Civilization I	3
Hist 171	Survey of East Asian Civilization II	3
OR		
Hist 270	Colonial Latin America	3
Hist 271	Latin America Since Independence	3

Two non-World surveys, one in U.S. and one in Europe; at least one of the two must be History 160 or 280: 6 credits

One course from the following (U.S.):

Hist 280	Survey of US History, 1600-1877	3
Hist 281	Survey of US History, 1877-Present	3

One course from the following (Europe):

Hist 160	Survey of Western Civilization I	3
Hist 261	Survey of Western Civilization II	3

Hist 396	Philosophy and Methods	4
Hist 496	Research Senior Seminar	4

Subtotal Specific Departmental Requirements 20

Subtotal Other Departmental Requirements 18-24

Other Departmental Requirements:

Total required in major 38-44

Three upper division World History courses chosen from the following (9-12 credits):

Hist 342	West Africa	4
Hist 343	Ancient Nile Valley	4
Hist 344	Northeast Africa	4
Hist 346	South Africa	4
Hist 348	Africans in the Americas	4
Hist 349	Islam in History	4
Hist 351	U.S.-East Asian Relations	4
Hist 352	Modern China	4
Hist 354	Women/Family/Gender/Chinese Hist	4
Hist 355	East Asian Popular Religion	4
Hist 356	History of Japan	4
Hist 371	History of Central America	4
Hist 372	U.S.-Latin American Relations	4
Hist 373	History of Mexico	4
Hist 446	Ancient Israel and Judah	3
Hist 475	Advanced Studies in Latin American History	3

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

Recommended Courses:

History majors are strongly urged to take two courses in one modern language, and courses in Anthropology, Art (in particular Art History), Economics, English, Geography, Philosophy, Political Science, Psychology, Sociology, and Southwest Studies (of particular interest, SW 340 Archival Theory & Practice and SW 341 Oral History: Theory and Practice).

HISTORY MINOR

REQUIREMENTS FOR A MINOR IN HISTORY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than History may complete a minor in History upon satisfactorily completing the following requirements:

A total of 6 courses is required from at least two different instructors. Three courses (9 credits) should be lower division and three courses (10-12 credits) should be upper division. See the department chair for further information.

TOTAL REQUIRED FOR HISTORY MINOR 19-21

Three upper division Non-World courses, one must be U.S., one must be European (9-12 credits):

United States

Hist 311	Colonial and Revolutionary America, 1492-1789	4
Hist 314	Inventing America, 1789-1850	4
Hist 315	Irish, Catholic, American	4
Hist 316	Civil War America	4
Hist 318	Emergence of Modern America, 1893-1939	4
Hist 322	Western American Mining	3
Hist 324	Colorado History	3
Hist 326	Baseball and the American Dream	4
Hist 331	Politics of Poverty in U.S.	4
Hist 332	Women in American History	4
Hist 333	America Since 1945	4
Hist 334	United States and Vietnam	4
Hist 335	Work and Workers in the U.S.	4
Hist 337	Cultural and Intellectual Hist in the 20th Cent	4
Hist 485	Advanced Studies in United States History	3

Europe

Hist 302	Ancient Rome	4
Hist 308	Rise of Christianity	4
Hist 359	Medieval Europe	4
Hist 360	Renaissance Europe	4
Hist 361	Russia in Revolution to 1924	4
Hist 362	Soviet Union: Stalin to Gorbachev	4
Hist 364	Germany: Roman Times to 1919	4
Hist 365	Germany, 1919 to Present	4
Hist 366	Hitler and the Holocaust	3
Hist 368	Medieval Women	4
Hist 382	Reformation Europe and Wars of Religion	4
Hist 465	Advanced Studies in European History	3

HUMANITIES

Coordinators - Gordon P. Cheesewright and Kathryn Moller.

Humanities Advisors:

Professors - Gordon P. Cheesewright (English), Byron Dare (Political Science), Larry K. Hartsfield (English), Rochelle G. Mann (Music), Kathryn Moller (Theatre, Gender/Women's Studies), and Susan M. Moss (Art, Gender/Women's Studies)

Associate Professors - Michael C. Anziano (Psychology), Jennifer A. Gehrman (English, Gender/Women's Studies), David L. Kozak (Anthropology), Dennis W. Lum (Sociology), and Dugald L. Owen (Philosophy)

The Humanities Major consists of a primary concentration of 30 credits in one of the disciplines listed below and two secondary concentrations of 12 credits each in two other of these disciplines. At least half of the credits constituting the primary concentration and half of the total credits in the secondary concentrations must be upper-division courses. Students majoring in Humanities must choose advisors from the disciplines of their primary concentrations.

Students are expected to take the Senior Seminar in their primary concentration and should check carefully with their advisors to be sure that they complete the departmental prerequisites for that course. Students seeking a second major cannot choose the disciplines used as the primary and secondary concentrations within their Humanities major. Courses used in a primary or secondary concentration may count toward both the Humanities major and the General Education Requirements. The disciplines from which students may chose concentrations within the humanities major are listed below. Please note any restrictions, requirements, or exceptions indicated for each discipline.

Anthropology: Anth 236 does not count.

Art: Two art history courses and two studio courses required for Primary Concentration.

Economics: Econ 201 does not count.

English: English 250, 251, 252, 308, 350, 351, 404, 450, 451, 452, 453, and 483 do not count.

History

Modern Language: In addition to all Modern Language courses, Ed 333 is allowed. Spanish, French, or German allowed as primary concentration. Spanish, French, German, Japanese, or Navajo allowed as secondary concentration.

Music: Allowed as a secondary concentration only. Mu 331 and 332 required; all additional credits must be chosen from among Mu 120, 128, 129, 228, 229, or 337.

Philosophy

Political Science: PS 492 does not count.

Psychology: No more than a combined total of six credits in psychology from off campus coursework or innovative month or independent study (Psych 299/Psych 499) may be counted toward a primary or secondary concentration.

Sociology: Sociology 300 required for primary concentration

Southwest Studies

Theatre: Thea 101 does not count; only nine credits allowed from among Thea 100, 200, 300, and 400 (four credits for secondary concentration).

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HUMANITIES:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements:</u>	
Primary Concentration (includes 496 Senior Seminar or GS 496). 15 credits must be upper division).	30
Two Secondary Concentrations (12 credits each. A total of 12 of the 24 credits must be upper division):	24
Subtotal Specific Departmental Requirements	54
<u>Auxiliary Departmental Requirements:</u>	
Two semesters of one college-level modern language	6-8
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

INTERDISCIPLINARY STUDIES

For information: see David Hayes, Director of Teacher Education

The Interdisciplinary Studies Major (ISM) has two options:

- The ISM Teacher Education option is for students who plan to earn a Colorado teaching license in Early Childhood Education (birth-3rd grade) and/or Elementary Education (K-6).
- The ISM General option is for students interested in a broad range of coursework in math, science, social sciences, and language arts.

INTERDISCIPLINARY STUDIES MAJOR – TEACHER EDUCATION OPTION

The Interdisciplinary Studies Major (ISM) Teacher Education option offers high quality preparation for students who plan to earn a Colorado teaching license in Early Childhood Education (birth-3rd grade) and/or Elementary Education (K-6). ISM majors choosing this option must apply for and be admitted into the Teacher Education Licensure Program. To complete this program in four years, ISM students ideally should be admitted to the Teacher Education Licensure Program by the end of their Freshman year but no later than the end of their first term of their sophomore year. Students may read the admission steps and requirements in the 2007-08 catalog under Teacher Education Licensure Program, pp. 125-129.

- This ISM Elementary Education (El Ed)/Early Childhood Education (ECE) curriculum is designed so that the final three terms are sequentially structured into three immersion blocks (Blocks 1, 2 and 3) that combine education coursework with field-based experiences in preschool and elementary classrooms. Careful planning and advising is essential to completing the program in four years and ISM students should completely understand how this structure will work:
- Students will need to plan non-academic activities including work schedules around this immersion block system as either coursework or field experiences take place all day during the school week during Blocks 1 and 2.

- Students will need to complete their final one non-block course during Immersion Block One, as only required Block coursework may be taken during Immersion Blocks Two and Three.
- Students who come to the three Block sequence needing more than one non-block course may pick up needed courses during the Summer Sessions if the needed coursework is offered.

ISM students may seek either or both ECE and EL ED licensure. The same course structure applies to both programs as methods courses are structured to cover preschool through sixth grade. ISM Students should follow one of the paths below.

- Students seeking early childhood licensure must pass the state required early childhood education content test prior to being placed into the third-term (student teaching) block. They must student teach in a grade level from kindergarten to third grade to be eligible for early childhood licensure. They also will be recommended for elementary education licensure if they choose to take and pass the required test for elementary education within three years of completing the program.
- ISM students seeking elementary education licensure must pass the state required elementary education content test prior to being placed into the third-term (student teaching) block. They may student teach in a grade level from kindergarten to sixth grade.
 - > ISM students seeking elementary education licensure who choose to student teach in a grade level from Kindergarten to third grade also will be recommended for early childhood licensure if they choose to take and pass the required test for early childhood education within three years of completing their program.
 - > As teaching in a kindergarten through third grade level is mandatory for early childhood licensure, elementary education licensure students who choose to student teach in a grade level from fourth to sixth grade are not initially eligible for early childhood education licensure. However, they also will be recommended for early childhood licensure if they meet the following conditions within three years of completing their program 1) passing the required test for early childhood education and, 2) returning to Fort Lewis College to student teach in a K-3 placement, or verifying (by a school district principal or designated representative) that they have had at least one year of satisfactory teaching experience in a K-3 grade level.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN INTERDISCIPLINARY STUDIES – TEACHER EDUCATION OPTION

General Education Requirements **39**

See pp. 23-27 for General Education requirements.

Content Course Requirements:

Note: 20-24 content credits may double count in other areas of the curriculum.

Mathematics (9-10 credits):

Math 215 Math for Elementary Teachers I 3
OR

Math 155 from El Ed or ECE articulation agreements 3

Math 318 Math for Elementary Teachers II 3
OR

Math 156 from El Ed or ECE articulation agreements 3

Math electives 3-4

Elective courses in Mathematics include any one course from GMA1.

Language Arts (12 credits):

ED 327 Children's Literature 3

ED 335 Linguistics 3

Language Arts electives 6

Elective courses in language arts must be chosen from among the following: ED 333, Soc 376, Thea 323, any modern or foreign language course, any course with an ENGL prefix, OR any course from GAH1, GAH 2, or GAH 4.

Social Studies (13 credits):

Psyc 254 Life Span Human Development 4

American History course 3

American History course must be chosen from the following list: Hist 181 or SW 181, Hist 280, Hist 281, Hist 311, Hist 314, Hist 318, Hist 331, Hist 332, Hist 333, Hist 335, Hist 337, SW 123, SW 125.

Social Studies electives 6

Elective courses in Social Studies must be chosen from the following list:

FLC courses with Anth, Econ, Geog, Hist, PS, Soc or SW prefix or any courses from GHI1, GSS1, GSS2, or GSS3.

Science (10-12 credits):

Choose from the following list at least two disciplines and at least one course including a lab:

Any FLC courses with Bio, Chem, Geol, PhSc or Phys prefixes; or any courses from GSCI1 or GSCI2.

Subtotal Content Course Requirements 43-47

Auxiliary Department Requirements:

Psyc 157 Introduction to Psychology 3
OR

any Intro Psyc course from GSS3 3

Subtotal Auxiliary Requirements 3

Specific Departmental Requirements, 200-level (3 credits):

ED 222 Education: Global Perspectives 3

Specific Departmental Requirements, 300-level (12 credits):

NOTE: Admission to Teacher Education Licensure Program required for all 300- and 400- level education courses.

ED 322	Foundations of Teaching	4
ED 328	Children's Lit Field Lab	1
ED 334	ESL Methods	3
ED 329	Family and Community Relations	2
ED 377	Technology in Education	2

Specific Departmental Requirements, 400-level (43 credits):

First Term Block courses

ED 427	Teaching Language Arts P-6	4
--------	----------------------------	---

ED 437	Teach Art, Music and Movement P-6	3
--------	-----------------------------------	---

ED 447	Instructional Equality	3
--------	------------------------	---

ED 428	P-6 School Immersion I	2
--------	------------------------	---

Second Term Block courses

ED 425	Teaching Science and Technology P-6	4
--------	-------------------------------------	---

ED 435	Teaching Mathematics P-6	3
--------	--------------------------	---

ED 445	Teaching Social Studies P-6	3
--------	-----------------------------	---

ED 465	Managing Diverse Classrooms I	3
--------	-------------------------------	---

ED 438	P-6 School Immersion II	3
--------	-------------------------	---

Third Term Block courses (student teaching block)

Note: Admission to student teaching and passing of required content test required for this block.

ED 475	Managing Diverse Classrooms II	3
--------	--------------------------------	---

ED 496	Senior Seminar in Education	2
--------	-----------------------------	---

ED 498	P-6 School Immersion III	10
--------	--------------------------	----

Subtotal Specific Departmental Requirements	58
---------------------------------------------	----

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Math 105, Geol 180, and Psyc 157). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

INTERDISCIPLINARY STUDIES MAJOR – GENERAL OPTION

The ISM general option is structured to promote the acquisition of a broad range of content area knowledge in math, science, social sciences, and language arts. Students who are interested in this broad content preparation do not seek a teaching license and do not apply to be admitted to the Teacher Education Licensure Program.

General Education Requirements **39**

See pp. 23-27 for General Education requirements.

Content Course Requirements:

Mathematics (9-10 credits)

Math courses may be chosen from any FLC college-level math or statistics courses or any courses from GMA1.

Language Arts (12 credits)

Language Arts courses may be chosen from the following FLC courses: Soc 376, Thea 323, any modern or foreign language course, any course with an ENGL prefix, OR any course from GAH1, GAH2, or GAH4

Social Studies (12-13 credits)

Psyc 254 Life Span Human Development 4

American History course 3

American History course must be chosen from the following list: Hist 181 or SW 181, Hist 280, Hist 281, Hist 311, Hist 314, Hist 318, Hist 331, Hist 332, Hist 333, Hist 335, Hist 337, SW 123, SW 125.

Elective Courses in Social Studies 6

Social Studies elective course must be chosen from the following: FLC courses with Anth, Econ, Geog, Hist, PS, Soc or SW prefix or any courses from GHI1, GSS1, GSS2 or GSS3.

Science (10-12 credits)

Choose from the following list at least two disciplines and at least one course including a lab:

Any FLC courses with Bio, Chem, Geol, PhSc or Phys prefixes; or any courses from GSCI1 or GSCI2.

Subtotal Content Course Requirements 43-47

Auxiliary Department Requirements:

Psyc 157 Introduction to Psychology 3

OR

any Intro Psyc course from GSS3 3

Subtotal Auxiliary Requirements 3

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

MATHEMATICS

Course listings for Mathematics (MATH) begin on page 177.

Department Chair – Carl F. Lienert
 Associate Professors - Deborah L. Berrier and Pamela K. Smith
 Assistant Professors - Vesta Coufal, Veronika Furst, Carl F. Lienert, and Erich McAlister

MATHEMATICS MAJORS

Society is increasingly dependent upon solving complex problems of a numerical, quantitative, and statistical nature. These all require logical thought. The Mathematics major is a solid introduction to all aspects of mathematics. It helps students prepare for the exciting challenges of today and tomorrow. Additionally, for those students who are undecided about a career, a Mathematics major proves an excellent background in critical thinking and problem solving.

Many graduates have chosen to be teachers in public schools. The Mathematics for Secondary Education option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 math teachers.

MATHEMATICS MINOR

A minor is available in mathematics and requirements are listed at the end of this section.

MATHEMATICS

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements¹:</u>	
Math 201 Elementary Statistics	4
Math 221 Calculus I	4
Math 222 Calculus II	4
Math 223 Calculus III	4
Math 301 Foundations for Advanced Mathematics	4
Math 311 Matrices and Linear Algebra	4
Math 327 Differential Equations	4
Math 424 Advanced Calculus	4
Math 487 Algebraic Structures	4
Three additional Math courses above 300, except 318	9-12
Math 496 Mathematics Senior Seminar	3
Subtotal Specific Departmental Requirements	48-51

<u>Auxiliary Requirements from Other Departments:</u>	
CSIS 106 Introduction to Programming in Visual Basic	
OR	
CSIS 110 Introduction to Programming (Java)	4
Subtotal Auxiliary Requirements	4

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹ All specified prerequisites for all math courses must be completed with a grade of C- or better.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

MATHEMATICS – MATHEMATICS FOR SECONDARY EDUCATION

The Mathematics for Secondary Education option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 math teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Math Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program. Students should be advised that the minimum hour requirement shown here to complete this option assumes that the student is ready to begin with Math 221 and Comp 150 in their Freshman year. An incoming placement into courses that are prerequisites for either of these courses will likely result in completing the program in more than four years.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS – MATHEMATICS FOR SECONDARY EDUCATION OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements¹:</u>	
Math 201 Elementary Statistics	4
Math 221 Calculus I	4
Math 222 Calculus II	4
Math 223 Calculus III	4
Math 301 Foundations of Advanced Mathematics	4
Math 310 Math for Secondary Teachers	3
Math 311 Matrices and Linear Algebra	4
Math 325 History of Mathematics	3
Math 342 Modern College Geometry	3
Math 487 Algebraic Structures	4

Math 496 Mathematics Senior Seminar	3
Two additional math courses numbered above 300 – contact your advisor for recommendations for this option	6-8
Subtotal Specific Departmental Requirements	46-48
<u>Auxiliary Department Requirements:</u>	
CSIS 106 Intro Programming Visual Basic OR	4
CSIS 110 Intro Programming in Java	4
Subtotal Auxiliary Requirements	4
TOTAL MAJOR REQUIREMENTS	50-52
<u>Education Courses:</u>	
ED 222 Education: Global Perspectives	3
ED 322 Foundations of Teaching	4
ED 447 Instructional Equality	3
ED 448 Instructional Equality Lab	1
ED 465 Managing Diverse Classrooms I	3
ED 468 Managing Diverse Classrooms I Lab	1
ED 475 Managing Diverse Classrooms II	3
ED 478 Managing Diverse Classrooms II Lab	1
ED 424 Teaching Language & Math 7-12	3
ED 444 Secondary Teaching Methods	3
ED 495 Student Teaching Secondary	12
Subtotal Education Requirements	37

NOTE: Admission to Teacher Education Licensure Program required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222 and MATH 201). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

¹ All specified prerequisites for all math courses must be completed with a grade of C- or better.

MATHEMATICS MINOR

REQUIREMENTS FOR A MINOR IN MATHEMATICS:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Mathematics may complete a minor in Mathematics upon satisfactorily completing the following requirements:

Math 221 Calculus I	4
Math 222 Calculus II	4

Three additional mathematics courses above the 300 level (except Math 318)

OR	
Math 223 Calculus III	4
AND	

Two additional mathematics courses above the 300 level (except Math 318)

TOTAL REQUIREMENTS FOR MATHEMATICS MINOR 17-20

MODERN LANGUAGES

Course listings for Modern Languages (ML) begin on page 178.

Department Chair - Kathleen Aguilar
Professors - Lourdes M. Carrasco and Ingrid W. Ryan
Assistant Professors - Kathleen Aguilar and Patricia Sanchez-Flavian
Visiting Instructors - Ellen Hartsfield and Amy Sellin

The Department of Modern Languages offers its students thorough training in French, German, and Spanish and also offers courses in Japanese, Latin, and Navajo. Our programs enable students to interact and communicate effectively with native speakers globally, to master learning as inquiry, to realize critical thinking as problem solving, and to be active contributors in their communities and in the world. Our programs offer students the opportunity to achieve high competence in written and spoken French, German, and Spanish; to understand language-specific literatures, histories, and cultures; and to apply this literary, historical, and cultural knowledge in the study of other disciplines.

Students in Modern Languages at Fort Lewis College have a variety of study options. To meet the demands for greater linguistic competency in our increasingly global world, the Department offers the Dual Language major option for Spanish and French or Spanish and German. Also, as a means of preparing our students for professions in Spanish, the Department offers a variety of other major options. Together with the traditional Spanish major, we have interdisciplinary options in Latino Studies, Latin American Studies, and Spanish for Secondary Teachers. In addition, the Spanish Certificate Program offers a comprehensive plan of study to provide students the tools to communicate effectively in Spanish in the business world or in health and social services.

A final important facet of language studies is study abroad. Fort Lewis College students have a wealth of study abroad options available to them. The International Programs Office offers various programs during the academic year, and the Department offers Innovative Month programs during the summer, organized by Modern Language faculty.

Note: Language auxiliary requirements for other departments may be met with transferred American Sign Language courses. Contact the Registrar's Office for more information.

GUIDELINES FOR GRANTING CREDIT FOR FOREIGN LANGUAGE COMPETENCE

Fort Lewis College has three methods of granting credit for foreign language competence. One method is based upon the transfer of college credits from a regionally accredited college or university. The second method is by examination. A student may pass subject examinations of the College Level Examination Program (CLEP), Advanced Placement (AP), or International Baccalaureate (IB). Also, a student may challenge a foreign language course for credit through the Credit by Examination procedure, provided the challenged course is not more than one step below the student's present level. Except for transfer credits, credit will be granted for competence in a foreign language only for courses taught at Fort Lewis College.

Further information concerning foreign language competence is available through the Department of Modern Languages.

PROFESSIONAL CERTIFICATE IN SPANISH

A professional certificate in Spanish is available. Please see the certificate coordinator, Kathleen Aguilar, or visit the Modern Languages website for more information: http://www.fortlewis.edu/departamental_webpages/modern_language/default.asp

STUDY ABROAD

Several programs in many parts of the world are available to students. For more information contact the International Programs Office or a faculty member of the Department of Modern Languages.

MODERN LANGUAGE – SPANISH

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH:

General Education **39**
See pp. 23-27 for General Education requirements.

To earn a major in Spanish, a student is required to complete the equivalent of 40 credits of course work in the language. 200-level courses do not count toward the major.

Specific Departmental Requirements:

ML 215	Intermediate Spanish I	4
ML 216	Intermediate Spanish II	4
ML 319	Advanced Spanish Conv & Comp	4

*ML 320	Advanced Spanish Composition	4
ML 336	Survey of Spanish Lit	4
ML 337	Survey of Spanish American Lit	4
ML 345	Hispanic Cultures & Civilizations	4
ML 346	Topics: Hispanic Cultures	4
One of the following courses:		
*ML 431	Seminar Chicano Literature	4
*ML 496	Senior Seminar in Spanish	4
* ML 320 and ML 431 or ML 496 must be taken at Fort Lewis College. No exceptions.		
Subtotal Specific Departmental Requirements		36
Spanish Electives:		
4 credits to be taken from 300- or 400-level Spanish courses		4
TOTAL MAJOR Requirements		40
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

MODERN LANGUAGES – SPANISH – DUAL LANGUAGE OPTION

In this major option, students choose a combination of Spanish with French or Spanish with German. The Spanish – Dual Language option may not be combined with a French or German minor.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH – DUAL LANGUAGE OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Spanish Requirements:

ML 216	Intermediate Spanish II	4
ML 319	Advanced Spanish Conv & Comp	4
*ML 320	Advanced Spanish Composition	4
ML 336	Survey Spanish Literature	4
ML 337	Survey Spanish American Literature	4
ML 345	Hispanic Cultures & Civilizations	4
*ML 496	Senior Seminar in Spanish	4

Subtotal Spanish Requirements **28**
*Both ML 320 and ML 496 must be taken at Fort Lewis College. No exceptions.

Other Departmental Requirements (choose either the French or German Requirements):

French Requirements:

ML 247	Intermediate French I	4
ML 248	Intermediate French II	4
*ML 301	French Composition and Syntax	3
ML 305	Survey of French Literature	3
*ML 405	Senior Seminar in French	3

Electives - upper division		6
Subtotal French Requirements		23
*Both ML 301 and ML 405 must be taken at Fort Lewis College. No exceptions.		
German Requirements		
ML223	Intermediate German I	3
ML 224	Intermediate German II	3
ML 333	Advanced German Composition and Conversation	3
ML 334	Topics in German Literature	3
*ML 335	Seminar in German	3
Electives - Upper-division courses		6
Subtotal German Requirements		21
*ML 335 must be taken at Fort Lewis College. No exceptions.		
TOTAL MAJOR Requirements		49-51
Free Electives (variable)		
TOTAL REQUIRED FOR GRADUATION		120

MODERN LANGUAGES – SPANISH – LATIN AMERICAN OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH – LATIN AMERICAN OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Spanish Requirements:

ML 215	Intermediate Spanish I	4
ML 216	Intermediate Spanish II	4
ML 319	Advanced Spanish Conv & Comp	4
*ML 320	Advanced Spanish Composition	4
ML 337	Survey of Spanish American Lit	4
ML 345	Hispanic Cultures & Civilizations	4
*ML 496	Senior Seminar in Spanish	4

Subtotal Spanish Requirements **28**
*Both ML 320 and ML 496 must be taken at Fort Lewis College. No exceptions.

Electives; students must complete a minimum of 12 credits, choosing from the following courses:

ANTH 350	Ethnology of Mesoamerica	4
ANTH 351	Ethnology of Andean South America	4
ANTH 450	Adv Research in Latin American Anth	2
ART 365/SW 360	Mesoamerican Art History	3
HIST 371	History of Central America	4
HIST 372	US-Latin American Relations	4
HIST 373	History of Mexico	4
HIST 475	Adv Studies in Latin American History	3
ML 330	Advanced Mexican Readings	4
ML 346	Topics: Hispanic Cultures	4
ML 390	study abroad or transfer credits; must be assessed on individual basis and approved by department chair	
PS 370	Latin American Politics	4
SOC 301	Comparative Societies: Latin America	4
SW 425	Hispanic Civilization	3

Subtotal Electives for Major	minimum 12
TOTAL MAJOR REQUIREMENTS	40
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

MODERN LANGUAGES – SPANISH – SECONDARY TEACHERS OPTON

The Spanish for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 Spanish teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Modern Languages Department advisor as early as possible in their careers, and should read the Teacher Education section of this catalog, pp. 125-129, for the steps, specific required education courses, and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH – SECONDARY TEACHERS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

ML 215	Intermediate Spanish I	4
ML 216	Intermediate Spanish II	4
ML 319	Advanced Spanish Conv & Comp	4
*ML 320	Advanced Spanish Composition	4
ML 336	Survey of Spanish Lit	4
ML 337	Survey of Spanish American Lit	4
ML 345	Hispanic Cultures & Civilizations	4
ML 346	Topics: Hispanic Cultures	4
*ML 496	Senior Seminar in Spanish	4

Subtotal Specific Departmental Requirements 36
*Both ML 320 and ML 496 must be taken at Fort Lewis College. No exceptions.

Spanish Electives:
4 credits to be taken from 300- or 400-level Spanish courses 4

TOTAL MAJOR REQUIREMENTS **40**

Education Course Requirements:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3

ED 478	Managing Diverse Classrooms II Lab	1
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
ED 495	Student Teaching Secondary	12

Subtotal Education Requirements 39

NOTE: Admission to Teacher Education Licensure Program is required for all 300- and 400-level education courses.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120-126**

MODERN LANGUAGES – SPANISH – U.S. LATINO STUDIES OPTON

Note to Southwest Studies majors: Students who are majoring in Southwest Studies may not count the same courses toward both the Southwest Studies major and the Spanish - U.S. Latino Studies option.

Specific Departmental Requirements:

ML 215	Intermediate Spanish I	4
ML 216	Intermediate Spanish II	4
ML 319	Advanced Spanish Conv & Comp	4
*ML 320	Advanced Spanish Composition	4
ML 337	Survey of Spanish American Lit	4
ML 345	Hispanic Cultures & Civilizations	4

Choose one of the following two courses:

ML 431	Seminar Chicano Literature	4
*ML 496	Senior Seminar in Spanish	4

* ML 320, ML 431, and ML 496 must be taken at Fort Lewis College. No exceptions.

Subtotal Specific Departmental Requirements 28

Electives; students must complete a minimum of 12 credits, choosing from the following courses:

ART 265	Art History of the Southwest	3
ANTH 388	Ethnology of the Southwest	4
ML 318	Spanish of the Southwest	4
ML 331	Chicano Literature	4
PHIL 382	Philosophies of the Southwest	3
SOC 421	Contemporary Social Analysis SW	4
SW 318	History of Chicanos in Film	3
SW 361	Cultural Ecology of the SW	3
SW 382	Hispano Literature, Art, Culture	3
SW 383	Southwest History to 1868	3
SW 384	Southwest History 1868 to Present	3
SW 401	Contemporary Art & Literature of the SW	3
SW 425	Hispanic Civilization	3

Subtotal Electives for Major minimum 12

TOTAL MAJOR REQUIREMENTS **40**

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

FRENCH MINOR

REQUIREMENTS FOR A MINOR IN FRENCH:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Spanish – Dual Language option (French) may complete a minor in French upon satisfactorily completing the following requirements:

French:		
ML 147	Elementary French I	4
ML 148	Elementary French II	4
ML 247	Intermediate French I	4
ML 248	Intermediate French II	4
300- or 400-level	French courses	9

TOTAL REQUIRED FOR FRENCH MINOR 25

When planning a minor in French, students should consult with an appropriate faculty member in the Department of Modern Languages.

Students may also pursue a student-constructed major in French under the supervision of the appropriate faculty member (See Student Constructed Major).

For French, German, Japanese, Latin, and Navajo, see Modern Language course listings, page 178.

GERMAN MINOR

REQUIREMENTS FOR A MINOR IN GERMAN:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Spanish – Dual Language option (German) may complete a minor in German upon satisfactorily completing the following requirements:

German:		
ML 123	Elementary German I	4
ML 124	Elementary German II	4
ML 223	Intermediate German I	3
ML 224	Intermediate German II	3
300- or 400-level	German courses	9

TOTAL REQUIREMENTS FOR GERMAN MINOR 23

When planning a minor in German, students should consult with an appropriate faculty member in the Department of Modern Languages.

Students may also pursue a student-constructed major in German under the supervision of the appropriate faculty member (See Student Constructed Major).

For French, German, Japanese, Latin, and Navajo, see Modern Language course listings, page 178.

SPANISH MINOR

REQUIREMENTS FOR A MINOR IN SPANISH:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Spanish may complete a minor in Spanish upon satisfactorily completing the following requirements:

Completion of 24 credits in Spanish, 12 credits of which must be 300- or 400-level courses.

TOTAL CREDITS REQUIRED FOR SPANISH MINOR 24

When planning a minor in Spanish, students should consult with an appropriate faculty member in the Department of Modern Languages.

MOUNTAIN STUDIES MINOR

Course listings for Mountain Studies (MS) begin on page 180.

Coordinators - David Kozak and Gary Gianniny

Advisors:

Professor - Thomas Skurky (Psychology)

Associate Professors - Alane Brown (Psychology), Gary Gianniny (Geosciences), David Kozak (Anthropology), and Scott White (Geosciences)

Assistant Professors - Cynthia Dott (Biology) and Julie Korb (Biology)

Mountain Studies is a regionally focused, globally relevant interdisciplinary and experiential exploration of mountains and their role in human mythology, history, culture, and the social and natural sciences. As a type of landform, mountains have captivated the imaginations of people from around the world, influenced art, and inspired the creation of religions. Moreover, mountains are vitally important for the health of the planet and for supplying the majority of fresh water for human consumption. The Mountain Studies minor offers an exciting opportunity to study the role of mountains in human culture and natural history, and to experience firsthand the vast mountainous terrain in southwest Colorado and beyond while attending Fort Lewis College. A unique partnership between Fort Lewis College and the Mountain Studies Institute in Silverton, Colorado enhances the student's experience available in this innovative program.

Students completing the minor may take classes in the humanities, social sciences, sciences and exercise science in order to achieve an interdisciplinary experience. Students should contact one of the coordinators, David Kozak or Gary Gianniny, in order to plan a course of study or learn the details of the program and internships. NOTE: Students electing the Mountain Studies minor must receive advising from a Mountain Studies advisor.

There are five primary components to the minor:

1. Students select 12 credits from a list of existing courses (at least six credits of biology or specified geosciences offerings including labs); six credits must be upper division.

2. Students complete a total of four credits of internship (MS 350). MS 350 is a variable credit course (1-4). Students can take the internship once or several times, to complete the requirement of four credits. Students will be responsible for maintaining documentation proving completion of this requirement. This documentation will be required to attain instructor permission to register for MS 496.
3. Students take two credits of Physical Education (PE) classes selected from an approved list of existing courses.
4. Students culminate their Mountain Studies minor with an integrative capstone course, MS 496 (2-4 credits).
5. Students participate in four pre-approved Outdoor Pursuits outings. These experiences form the basis of reflective writing essays in the Mountain Studies Colloquium. The student will be responsible for maintaining documentation proving completion of this requirement. This documentation will be required to attain permission to register for MS 496.

REQUIREMENTS FOR THE MINOR IN MOUNTAIN STUDIES:

NOTE: NO MORE THAN ONE COURSE FROM YOUR MAJOR DEPARTMENT WILL COUNT TOWARD THE MOUNTAIN STUDIES MINOR. UPPER DIVISION ELECTIVES IN THIS MINOR MUST TOTAL SIX CREDITS. THEY MAY BE SELECTED FROM EITHER THE BIOLOGY/GEOSCIENCES LIST OR FROM THE GENERAL ELECTIVES LIST BELOW.

Specific Requirements:

1. MS 350 Mountain Studies Internship 1-4

Note: This is a variable credit course. Students must complete a total of 4 credits of this course.

2. MS 496 Mountain Studies Colloquium 2-4

3. Minimum of 6 credits from Biology or Geosciences (including labs); choose from:

Biology
Bio 125 Conservation Biology 4
Bio/SW 250 Ecology of the Southwest 4

Geosciences
Geog 335 Weather and Climate 3
Geol 107 or Geol 113 Earth Systems Science or Physical Geol 4
Geol 305 Volcanism of Hawaii 2
Geol 323 Geomorphology 4

4. Minimum of 6 credits selected from the General Electives list below:

Anthropology
Anth 351 Ethnology of Andean South America 4

Business Administration		
BA 330	Tourism and Resort Management	4
English		
Engl 180	Literature of the Environment	4
Geography		
Geog 271	World Regional Geography	4
Geog 320	The North American Landscape	3
History		
Hist 181	US/SW Environmental History	3
Hist 322/SW 482	Western American Mining	4
Sociology		
Soc 310	Ecology and Society	4
Southwest Studies		
SW 333	Wilderness in America	3
Thematic Studies		
TS2N 405	Wilderness	4
TS2N 406	Water in the West	4
5. Two credits of Physical Education; choose from:		
PE 1410S	Backpacking and Camping	1
PE 1430F	Day Hiking	1
PE 1450S	Kayaking-Beginning	1
PE 1460S	Rock Climbing	1
PE 1481F	Skiing-Cross Country	1

Relevant courses from a variety of disciplines may also be offered as 190, 191, 390, or 391 courses. See the Mountain Studies coordinator and/or advisors about current offerings that could be applied toward a minor in Mountain Studies. PRIOR APPROVAL FROM COORDINATOR OF THE MOUNTAIN STUDIES MINOR MUST BE OBTAINED IN ORDER TO HAVE THESE COURSES INCLUDED AS PART OF THE MINOR. Additional courses may be added to this list from time to time; consult the Mountain Studies coordinator for current listings.

6. Additional Requirement: Participation in four approved Outdoor Pursuits outings.

TOTAL REQUIRED FOR MOUNTAIN STUDIES MINOR 20-22

MUSIC

Course listings for Music (MU) begin on page 180.

Department Chair - Katherine D. Jetter-Tischhauser
Professors - Linda S. Mack, Rochelle G. Mann, and John C. Pennington

Associate Professors - Timothy P. Farrell, Katherine D. Jetter-Tischhauser, and Mark A. Walters

Assistant Professors - Lisa Campi and Mikylah Myers McTeer

Visiting Instructor - Brock Burbach

PROGRAM MISSION AND GOALS

The Fort Lewis College Music Department is committed to the philosophy that the arts enrich both the human mind and spirit, and the faculty are dedicated to fostering artistic and intellectual development throughout the campus and surrounding communities.

Through programs that both challenge and nurture, the Music Department attempts to meet the following goals:

1. Provide an opportunity for all the students of this liberal arts institution to develop a better understanding of the musical arts;
2. Provide training in music leading to its associated careers;
3. Provide artistic leadership and musical performances for the enrichment of the cultural aspects of the College and community.

The Music Department has also established the following objectives:

1. In general education, the Music Department should serve a large portion of the student population both in courses which require previous musical experience and in courses designed for the neophyte.
2. Graduating seniors with majors in music should
 - a) demonstrate an understanding of the formal, harmonic, and melodic structure of standard musical literature;
 - b) demonstrate performance competency in at least one area of applied music;
 - c) demonstrate practical knowledge of keyboard skills;
 - d) demonstrate an understanding of music in its historical and cultural contexts; and,
 - e) where applicable (Music Education option), meet qualification requirements for certification by the Colorado Department of Education.

3. Musical performances should offer a wide variety of literature and styles in live concerts by both student and professional musicians. The College and community should both be actively involved in these programs.

COLLEGE-WIDE GOALS THAT THE MUSIC DEPARTMENT'S GOALS ADDRESS

The Music Department's goals are aligned with two of the College's four general education goals to be assessed:

1. Goals 1 and 3 and objectives 1, 2a, and 2d correspond to College-wide goal, "Learning as Inquiry."
2. Goal 2 and objectives 2b, 2c, 2e, and 3 correspond to the College-wide goal, "Responsible Action."

In today's complex society, the need persists for the educated person to be aware of the important role played by the arts. The Fort Lewis College Music Department, an accredited member of the National Association of Schools of Music, provides an opportunity for all students to be actively involved in the expansion of their understanding of music. The discipline and sensitivity developed by the study of music provides an excellent background for many and varied careers. The Music Department awards both majors and a minor in music.

For the student interested in majoring in music, the department offers a comprehensive curriculum. There are five different courses of study (options), each leading to the Bachelor of Arts degree in Music: General Music Studies, Jazz Studies, Music Business, Music Performance, and Music K-12 Teaching option. The only double major available is in Music K-12 Teaching option with Jazz Studies or Music Business.

All students majoring in music will be required to pass an entrance audition and theory placement exam. Music majors must also successfully pass an individual performance exam during the semester they are enrolled in MU 229 (Theory and Musicianship IV). This is a juried exam occurring within the student's Applied Music course that term. Most often this will occur during the second semester of the sophomore year.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC:

All music majors must satisfy the following Special Departmental Requirements as well as the listed Common Requirements.

Special Departmental Requirements:

Piano Proficiency Requirements:

All music majors must satisfy a piano proficiency requirement before taking Mu 349 Conducting I or Mu 423 Orchestration. The requirement includes sight reading, harmonization of a simple melody, and demonstrated ability to perform easier piano compositions (such as Clementi: "Sonatina Op. 36 #1;" Bach: "Two Part Invention"). Students with adequate skills may petition to take the examination and may receive credit for the appropriate courses. (See Credit by Examination, page 18) Those with less background must take a piano placement test and, in their freshman year, enroll in the proper course in the Piano class sequence 103, 104, 203, and 204. Successful completion of this sequence with a grade of A or B also satisfies the piano proficiency requirement.

Music Literature Requirement:

Concert Attendance. Attendance at scheduled recitals and concerts and at regularly scheduled listening labs is required each semester.

Major Ensemble Requirement:

At least 8 credits from Mu 105, 110, 117, 305, 310, and 317 are required. Students will be assigned to the appropriate major ensemble by the applied music instructor(s). At least one of the above is required each semester of residency with the exception contained within the following:

Music K-12 Teaching option: A Major Ensemble is not required during the semester of student teaching. Mu 110, 117, 310, or 317 is required for the instrumental specialization, and Mu 105 or 305 for the choral specialization.

Applied Music Requirement:

One applied course is required each semester of residency except during the semester of student teaching (Music Education option). The following guidelines pertain to the Music Performance option: Students must obtain music faculty approval before declaring the Music Performance option and subsequently register for 2 credits of applied music for their major instrument each semester of residency.

Foreign Language Requirement:

Two semesters of foreign language, either German or French, are strongly recommended for the General Music Studies and Music Performance options. The voice specialization within the Music Performance option requires three semesters of German or French, including at least one semester of each language.

MUSIC – GENERAL MUSIC STUDIES OPTION

The General Music Studies option is designed for students interested in a liberal arts education with an emphasis in music.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC – GENERAL MUSIC STUDIES OPTION:

General Education

39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Mu 128	Theory and Musicianship I	5
Mu 129	Theory and Musicianship II	5
Mu 228	Theory and Musicianship III	5
Mu 229	Theory and Musicianship IV	5
Mu 331	History of Music I	3
Mu 332	History of Music II	3
Mu 349	Conducting I	2
Mu 350	Conducting II	2
Mu 423	Orchestration	1
Mu 496	Senior Seminar	2
	Music Literature/Concert Attendance	0
	Major Ensemble	8
	Applied Music	8

Subtotal Specific Departmental Requirements **49**

Additional Requirements:

Students must present a half recital of at least 30 minutes duration during the junior or senior year.

TOTAL MAJOR REQUIREMENTS **49**

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION

120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

MUSIC – JAZZ STUDIES OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC – JAZZ STUDIES OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Mu 128	Theory and Musicianship I	5
Mu 129	Theory and Musicianship II	5
Mu 228	Theory and Musicianship III	5
Mu 229	Theory and Musicianship IV	5
Mu 331	History of Music I	3
Mu 332	History of Music II	3
Mu 349	Conducting I	2
Mu 350	Conducting II	2
Mu 423	Orchestration	1
Mu 496	Senior Seminar	2
	Music Literature/Concert Attendance	0
	Major Ensemble	8
	Applied Music	8
Subtotal Specific Departmental Requirements		49

Additional Requirements:

MU 102	Blues Jazz and Rock	3
MU 123	Basic Improvisation	1
MU 323	Advanced Improvisation	1
MU 336	Jazz History	3
MU 343	Technology & Music Industry	2
MU 436	Jazz Arranging	2

Private Instruction (4 semesters in addition to 8 credits of Applied Music listed above):

MU 109J/209J	Applied Jazz	2
MU 309J/409J	Applied Jazz	2

Large Ensemble - Big Band (8 semesters)

MU 119A	Jazz Ensemble	4
MU 319A	Jazz Ensemble	4

Small Ensemble – Combo (4 semesters)

MU 119B	Combo	2
MU 319B	Combo	2

Subtotal Additional Requirements 28

TOTAL MAJOR REQUIREMENTS 77

Additional Requirements:

Students must present a half combo recital of at least 30 minutes in length during the junior year and a full combo recital at least one hour in length during the senior year. All performed pieces must be composed by the student in fulfillment of the degree.

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

MUSIC – MUSIC BUSINESS OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC – MUSIC BUSINESS OPTION:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Mu 128	Theory and Musicianship I	5
Mu 129	Theory and Musicianship II	5
Mu 228	Theory and Musicianship III	5
Mu 229	Theory and Musicianship IV	5
Mu 331	History of Music I	3
Mu 332	History of Music II	3
Mu 342	Topics in Music Business	2
Mu 343	Technology & Music Industry	2
Mu 349	Conducting I	2
Mu 350	Conducting II	2
Mu 423	Orchestration	1
Mu 496	Senior Seminar	2
	Music Literature/Concert Attendance	0
	Major Ensemble	8
	Applied Music	8
Subtotal Specific Departmental Requirements		53

Auxiliary Requirements From Other Departments^{1,2}:

BA 103	The U.S. Business System	3
BA 240	Business Creativity and Innovation	2
BA 339	Selling	3
BA 340	Marketing	4
Econ 262	Principles of Econ – Micro	3

One additional course from the following:

ACC 225	Financial Accounting	4
BA 205	Small Business Venturing	3
BA 342	Retailing	3
BA 347	Consumer Behavior	3

Subtotal Auxiliary Requirements 18-19

¹ Students may not take more than 30 credits in accounting, business and economics.

² A minimum grade of C- must be earned in 300- and 400-level business courses to count toward graduation for the Music Business option.

TOTAL MAJOR REQUIREMENTS 71-72

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

MUSIC – MUSIC PERFORMANCE OPTION

The Music Performance option is designed for students who have demonstrated a strong commitment to music performance and who wish to use some of their elective credits to further concentrate in this area. The performance concentrations are limited to the areas of expertise represented by the music faculty. The areas of concentration are Piano, Voice, Brass, Woodwinds, Percussion, and Strings. A specific instrument must be chosen from within the brass, woodwinds, and strings.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC – MUSIC PERFORMANCE OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Mu 128	Theory and Musicianship I	5
Mu 129	Theory and Musicianship II	5
Mu 228	Theory and Musicianship III	5
Mu 229	Theory and Musicianship IV	5
Mu 331	History of Music I	3
Mu 332	History of Music II	3
Mu 349	Conducting I	2
Mu 350	Conducting II	2
Mu 423	Orchestration	1
Mu 496	Senior Seminar	2
	Music Literature/Concert Attendance	0
	Major Ensemble	8
	Applied Music	16
Subtotal Specific Departmental Requirements		57

Additional Requirements:

Students must present a half recital of at least 30 minutes duration during the junior year and a full recital of at least one hour duration during the senior year.

TOTAL MAJOR REQUIREMENTS 57

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

MUSIC – MUSIC K-12 TEACHING OPTION

The Music K-12 Teaching option gives high-quality academic preparation to students who wish to become Colorado licensed K-12 music teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Music Department advisor as early as possible in their careers and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC – MUSIC K-12 TEACHING OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

MU 103	Voice in Class	1
MU 103	Brass in Class	1
MU 103	Woodwinds in Class	1
MU 103	Percussion in Class	1
MU 103	Strings in Class	1
MU 128	Theory and Musicianship I	5
MU 129	Theory and Musicianship II	5
MU 228	Theory and Musicianship III	5
MU 229	Theory and Musicianship IV	5
MU 314	Methods & Principles of Teach Vocal Music	3
MU 315	Methods & Principles of Teach Instrmtal	3
MU 316	Music in the Elementary School	3
MU 331	History of Music I	3
MU 332	History of Music II	3
MU 349	Conducting I	2
MU 350	Conducting II	2
MU 423	Orchestration	1
MU 496	Senior Seminar	2
	Major Ensemble	7
	Applied Music	7
	Music Literature/Concert Attendance	0
Subtotal Specific Departmental Requirements		61

Additional Requirements:

Students must present a half recital of at least 30 minutes duration during the junior or senior year

Recommended Courses (not required):

MU 103	Guitar Class	2
TS2R 405	Music & Culture non-western Civ	4

TOTAL MAJOR REQUIREMENTS 61

Education Licensure Requirements:

ED 222	Education: Global Perspectives	3
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1

ED 494	Student Teaching in the Elementary School	6
ED 495	Student Teaching in the Secondary School	6
Subtotal Teacher Education Licensure Requirements		27
NOTE: Admission to Teacher Education Licensure Program required for all 300- and 400-level education courses.		
Recommended But Not Required Courses		
ED 377	Technology in Education	2

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major (ED 222) to complete certain General Education requirements. Using this course to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

MUSIC MINOR

REQUIREMENTS FOR A MINOR IN MUSIC:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Music may complete a minor in Music upon satisfactorily completing the following requirements:

1. A minimum of 19 credits of music with at least 6 credits in upper-division courses
2. A core curriculum that includes:

Mu 128	Theory and Musicianship I	5
Mu 129	Theory and Musicianship II	5
Mu 331	Music History I or Mu 332 Music History II	3
3. Three years of Applied Music (MU 109, 209, 309 and 409)

Interested students should consult with their Applied Music instructor or the department chair.

PHILOSOPHY

Course listings for Philosophy (PHIL) begin on page 186.

Department Chair – Kenyon Bunch
 Professor - Reyes R. Garcia
 Associate Professors - Dugald L. Owen and Sarah Roberts-Cady

The purpose of the Philosophy curriculum at Fort Lewis College is not only the study of traditional and contemporary philosophical issues and positions for their intrinsic interest and importance, but also the demonstration that these age-old but continuing efforts to understand ourselves and our relation to the world are important to everyone. It is the mark of a liberally educated person to understand the conclusions of the specialized sciences in terms of their basic assumptions, to think seriously about the nature of such assumptions, and to be aware of the way in which our views of reality are influenced by our cultural heritages and by the very structures of our languages. Perhaps the most important function of philosophy as part of the liberal education is the destruction or at least the recognition of the complacency and provincialism of much of our thinking.

A major in philosophy will provide a sound foundation for graduate studies in philosophy and will also serve as an excellent preparation for law school or for theological studies. For students majoring in philosophy, as well as for those majoring in other disciplines and minoring in philosophy and for those taking several philosophy courses as electives, the program is designed to provide a systematic acquaintance with humankind's most fundamental attempts at self-knowledge and a concomitant basis from which students can formulate their own views of themselves and the world.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN PHILOSOPHY:

General Education 39

See pp. 23-27 for General Education requirements.

Major Requirements:

Phil 251	Moral Philosophy	
	OR	
Phil 264	Social and Political Philosophy	4
Phil 271	Logic	4
Phil 274	Ancient and Medieval Philosophy	4
Phil 305	Writing Philosophy	4
Phil 379	Modern Philosophy: 17th & 18th Centuries	4
Phil 380	Nineteenth Century Philosophy	4
Phil 496	Senior Seminar in Philosophy	4

Subtotal Major Requirements 28

Other Departmental Requirements:

Two other courses in philosophy (a minimum of 6 credits), including at least one course in non-western philosophy. PS 386 and PS 387 may be applied toward this requirement.

Subtotal Other Departmental Requirements 6-8

TOTAL MAJOR REQUIREMENTS 34-36

Auxiliary Requirements from Other Departments:

Two semesters of one modern language 6-8

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

PHILOSOPHY MINOR

REQUIREMENTS FOR A MINOR IN PHILOSOPHY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Philosophy may complete a minor in Philosophy upon satisfactorily completing the following requirements:

Phil 141	Introduction to Philosophy	
	OR	
Phil 274	Ancient and Medieval Philosophy	4
Phil 251	Moral Philosophy	4
Phil 271	Logic	4
Phil 379	Modern Philosophy: 17th & 18th Centuries	
	OR	
Phil 380	Nineteenth Century Philosophy	4
	At least one other 4-credit philosophy course numbered 300 or above.	4

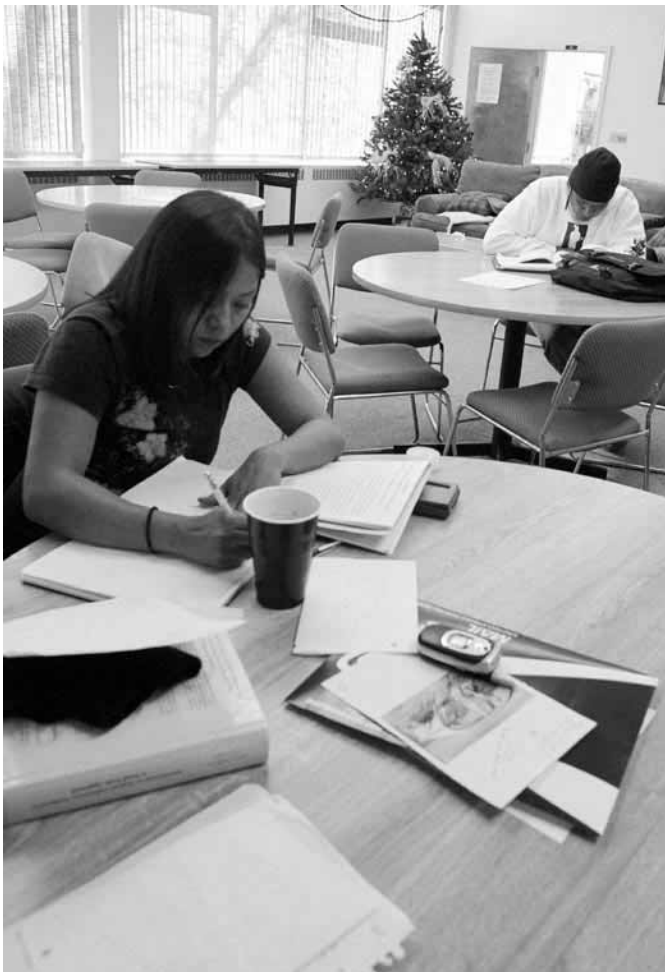
TOTAL REQUIREMENTS FOR PHILOSOPHY MINOR 20

PHYSICAL EDUCATION

Course listings for Physical Education/Exercise Science (PE) begin on page 184.

PHYSICAL SCIENCE

Course listings for Physical Science (PHSC) begin on page 188.



PHYSICS

Course listings for Physics (PHYS) begin on page 188.

Department Chair – Gerald Crawford
 Professor - Gerald Crawford
 Associate Professor – Ryan Haaland
 Assistant Professors – Charles Hakes, Jeffrey Loats, and Craig Tyler

The Bachelor of Science degree in Physics is designed to allow students to attain their professional goal of entering graduate work in physics or astrophysics; to obtain technical positions in industry in areas including energy science, engineering, electronics, optics, medical physics, and many more; or to obtain preparation for secondary certification in teaching physics in public schools. The geologist, engineer, chemist, and biologist all deal with matter and energy in their various forms. Since physicists probe the physical laws underlying all physical processes, the study of physics is the cornerstone for all the natural sciences.

The physics curriculum is predicated upon the role physicists play in a modern, technological world society that is currently experiencing shortages of trained personnel in various scientific areas and in science education. Coursework in physics will provide the student pursuing entrance to graduate school in physics or astronomy with a strong grounding in mathematics and physics, while being immersed in an atmosphere of a broad, liberal education in the humanities and social sciences. This curriculum also will enable a student to enter applied technical fields in industry such as electronics, optics, and aerospace, where there is currently a high demand. Students seeking a degree in physics should consult early in their college career with staff members of the Physics Department.

Fort Lewis College offers three options to the BS degree in physics: traditional Physics, an ABET-accredited option in Engineering-Physics, and preparation for secondary education teachers in physics. A minor in physics is available for students majoring in other disciplines; a minor in engineering is also available. Requirements for each option and the minors are listed at the end of this section.

Courses used to meet all Physics options and minor requirements must be passed with a grade of C- or higher.

PHYSICS – PHYSICS OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS – PHYSICS OPTION:

General Education **39**
 See pp. 23-27 for General Education requirements.

All courses listed under Specific Departmental Requirements, Additional Departmental Requirements, and Auxiliary Requirements from other departments must be passed with a grade of "C-" or higher.

Specific Departmental Requirements:

Phys 217, 218	Physics for Science and Engineering I, II	10
Phys 320	Modern Physics	3
Phys 354	Theoretical Mechanics	3
Phys 361	Principles of Electricity and Magnetism	4
Phys 370	Heat and Thermodynamics	3
Phys 380	Advanced Physics Lab I	1
Phys 381	Advanced Physics Lab II	1
Phys 420	Quantum Mechanics I	3
Phys 496	Senior Seminar	2
Phys 497	Senior Seminar-Research	2

Subtotal Specific Departmental Requirements 32

Additional Departmental Requirements:

Six or more additional credits to be chosen from:

Phys 301	Introduction to Electronics	3
Phys 340	Optics	4
Phys 421	Quantum Mechanics II	3
Phys 454	Advanced Topics in Physics	1-4

Subtotal Additional Departmental Requirements 6

Auxiliary Requirements from Other Departments:

Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Math 221, 222, 223		
Calculus I, II, III		12
Math 327	Differential Equations	4
Engr 104	Computer Prog for Scientists and Engineers	3
Engr 201	Electric Networks I	4

Subtotal Auxiliary Requirements 31

Recommended Additional Math – Choose one:
 Math 311 Matrices and Linear Algebra
 Math 320 Numerical Analysis
 Other math courses numbered 300 or 400 as recommended by a physics advisor.

Major Totals 69

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

PHYSICS – ENGINEERING PHYSICS OPTION

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS – ENGINEERING PHYSICS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements in Physics:

Phys 217, 218	Physics for Science and Engineering I, II	10
Phys 320	Modern Physics	3
Phys 361	Princ of Electricity and Magnetism	4
Phys 380	Advanced Physics Lab I	1
Phys 381	Advanced Physics Lab II	1
Phys 420	Quantum Mechanics I	3

Subtotal Specific Departmental Physics Requirements 22

Specific Departmental Requirements in Engineering:

Engr 103	Computer Aided Drafting	3
Engr 104	Computer Prog for Scientists and Engineers	3
Engr 105	Engineering Principles and Design	3
Engr 201	Electric Networks I	4
Engr 217	Statics	3
Engr 221	Dynamics	3
Engr 270	Thermodynamics	3
Engr 317	Mechanics of Materials	3
Engr 321	Fluid Mechanics	3
Engr 405	Engineering Design and Practice	3
Engr 496	Senior Seminar-Design	2
Engr 497	Senior Seminar-Design	2

Engineering Electives: at least 14 credits chosen from the list below (courses selected to meet another requirement cannot be double counted as an elective):

Engr 202	Networks II	4
Engr 205	Surveying I	4
Engr 238	Digital Logic Design	4
Engr 305	Surveying II	4
Engr 330	Heat Transfer	3
Engr 454	Special Topics in Engineering	1-4
Phys 301	Introduction to Electronics	3
Phys 340	Optics	4

Subtotal Specific Departmental Engineering Requirements 49

Total Specific Departmental Requirements 71

Auxiliary Requirements:

Chem 150	Fundamentals of Chemistry I	4
Math 221, 222, 223	Calculus I, II, III	12
Math 327	Differential Equations	4

Subtotal Auxiliary Requirements 20

TOTAL MAJOR REQUIREMENTS 91

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **128****

**Students may complete this degree within 128 credits, but to do so they must use courses from the major to complete certain General Education requirements (e.g., Phys 217). Using this course to meet both major and Gen Ed requirements enables the student to complete within 128 credits.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

PHYSICS – PHYSICAL SCIENCE FOR SECONDARY TEACHERS OPTION

The Physical Science for Secondary Teachers option gives high-quality academic preparation to students who wish to become Colorado licensed grades 7-12 science teachers. This option is extremely demanding and requires careful planning and advising. Students choosing this option should consult a Physics Department advisor as early as possible in their careers and should read the Teacher Education section of this catalog, pp. 125-129, for the steps and requirements for applying to the Teacher Education Licensure Program.

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS – PHYSICAL SCIENCE FOR SECONDARY TEACHERS OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Phys 217	Physics for Science and Engineering I	5
Phys 218	Physics for Science and Engineering II	5
Phys 320	Modern Physics	3
Phys 340	Optics	4
Phys 380	Advanced Physics Lab I	1
Phys 381	Advanced Physics Lab II	1
Phys 420	Quantum Mechanics I	3
Phys 496	Senior Seminar	2
Phys 497	Senior Seminar – Research	2
PhSc 206	Astronomy	4

Subtotal Specific Departmental Requirements 30

Auxiliary Requirements:

Math 221	Calculus I	4
Math 222	Calculus II	4
Math 223	Calculus III	4
Bio 112	Introduction to Org/Ev Bio	4
Chem 150	Fundamentals of Chemistry I	4
Chem 151	Fundamentals of Chemistry II	4
Geol 107	Earth Systems Science	4

Subtotal Auxiliary Requirements 28

TOTAL MAJOR REQUIREMENTS 58

Education Courses:

ED 222	Education: Global Perspectives	3
ED 322	Foundations of Teaching	4
ED 377	Technology in Education	2
ED 447	Instructional Equality	3
ED 448	Instructional Equality Lab	1
ED 465	Managing Diverse Classrooms I	3
ED 468	Managing Diverse Classrooms I Lab	1
ED 475	Managing Diverse Classrooms II	3
ED 478	Managing Diverse Classrooms II Lab	1
ED 424	Teaching Language & Math 7-12	3
ED 444	Secondary Teaching Methods	3
Ed 495	Student Teaching Secondary	12
Subtotal Education Requirements		39

NOTE: Admission to Teacher Education required for all 300- and 400-level education courses.

TOTAL REQUIRED FOR GRADUATION 120-126**

**Students may complete this degree within the 126-credit maximum, but to do so they must use courses from the major to complete certain General Education requirements (e.g., ED 222, Math 221, and Phys 217). Using these courses to meet both major and Gen Ed requirements enables the student to complete within the 126-credit limit.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

ENGINEERING MINOR

Course listings for Engineering (ENGR) begin on page 165.

REQUIREMENTS FOR A MINOR IN ENGINEERING:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Physics or Business Administration – Engineering Management option may complete a minor in Engineering upon satisfactorily completing the following requirements:

Engr 104	Computer Prog. for Scientists and Engineers	3
Engr 105	Engineering Principles	3
Engr 217	Statics	3

At least three additional Engineering courses numbered 200 or above. 9-12

TOTAL REQUIRED FOR ENGINEERING MINOR 18-21

PHYSICS MINOR

REQUIREMENTS FOR A MINOR IN PHYSICS:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Physics may complete a minor in Physics upon satisfactorily completing the following requirements:

Phys 217, 218 (with departmental approval Phys 201, 202)	10
Phys 320 Modern Physics	3
Phys 380 OR 381 Advanced Physics Lab I or II	1

A minimum of 6 additional credits chosen from among:
Phys 301, 340, 354, 361, 370, 420, 421, 454 6-7

TOTAL REQUIRED FOR PHYSICS MINOR 20-21

POLITICAL SCIENCE

Course listings for Political Science (PS) begin on page 189.

Department Chair – Kenyon Bunch
 Professors - Kenyon Bunch and Byron Dare
 Associate Professor - Jan E. Sallinger
 Assistant Professor - Yohannes Woldemariam

The study of political science is concerned with the relationship between the governed and the government, the nature of the political process, and the role of the citizen in a democratic society.

The Political Science major provides excellent training for the person who (1) plans a career in law, journalism, or government; (2) hopes to work abroad; (3) plans to enter graduate school and later teach or serve as an administrator at the college level; or (4) expects to enter politics, either as a candidate or as an administrative aide to a public official.

Political science course offerings are also available to the student who is majoring in another area but who wants to learn something about politics and government.

A minor in political science is available for students majoring in other disciplines. Requirements for a minor in political science are listed at the end of this section.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN POLITICAL SCIENCE:

General Education 39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

PS 101	Introduction to Political Science	4
PS 110	U.S. National Government	4
PS 250	Introduction to Political Analysis	4
PS 251	Advanced Research Methods	4
PS 386	Ancient Political Thought	4
PS 387	Modern Political Thought	4

Option A:

PS 495	Pro-Seminar in Political Science	2
	AND	

PS 496	Senior Seminar	2
	OR	

Option B:

PS 495	Pro-Seminar in Political Science	2
	AND	

PS 499	Independent Study (exceptional circumstances)	2
--------	-----------------------------------------------	---

Subtotal Specific Departmental Requirements 28-30

Other Departmental Requirements:

19-20 additional credits, with at least one upper-division course from each of the following subfields I-III, and not more than 8 credits in internships:

I.	U.S. Politics	
PS 120	State and Local Government	4
PS 310	Public Opinion and Action	4
PS 330	Government Performance	4
PS 421	The American Presidency	4
PS 422	Legislative Process	4

II.	Public Law	
PS 140	Introduction to Law and Legal Systems	4
PS 241	Introduction to Criminal Justice Systems	4
PS 340	Constitutional Law: Bill of Rights	4
PS 341	Const Law: Fedlsm Sep Powers	4
PS/SOC 400	Native American Law and Politics	4
PS 423	Philosophy of Law	4
PS 425	Prisons and Prisoners	4

III.	Comparative Politics and International Relations	
PS 205	Environmental Politics	3
PS 280	Introduction to Comparative Politics	4
PS 320	International Politics	4
PS 322	International Political Economy	4
PS 325	Middle East Politics	4
PS 337	U.S. Foreign Policy	4
PS 370	Latin-American Politics	4
PS 372	African Politics and Development	4
PS 374	Pacific Rim Politics and Issues	4
PS 437	National Security Strategy and Policy	4

IV. Theory and Methods
 The Theory and Methods subfield requirement is included in Specific Departmental Requirements above (PS 250, PS 251, PS 386, and PS 387), but the following courses may be used to fill the 19-20 additional credits requirement:

PS 130	Intro to Environmental Policy	4
PS 300	Religion and Politics	4

Subtotal Other Departmental Requirements 19-20

Auxiliary Requirements from Other Departments:

Hist 280	Survey of U.S. History, 1600-1877	3
Hist 281	Survey of U.S. History, 1877 to present	3
	OR	
	2 courses in one modern language	6-8

Subtotal Auxiliary Requirements 6-8

TOTAL REQUIRED IN MAJOR 53-58

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

POLITICAL SCIENCE MINOR

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Political Science may complete a minor in Political Science upon satisfactorily completing the following requirements:

1. At least 24 credits in political science, exclusive of internship credits.
2. At least 12 of those credits must be upper division.

TOTAL REQUIRED FOR POLITICAL SCIENCE MINOR 24

PRE-LAW MINOR

Coordinator – Brad Reich (Assistant Professor, Business Administration)

Pre-Law is an interdisciplinary minor designed for those interested in a career in law, the legal field, or attending law school. The minor is designed to build both the skills and substantive knowledge to be successful in these areas. Specifically, students will develop and hone skills in critical thinking, logical analysis, legal research, and professional writing. Those completing the minor will be well prepared for further legal education, as well as diverse professional areas such as human resources, public service, and regulation.

A student majoring in any discipline may complete a minor in Pre-Law upon satisfactorily completing the following requirements.

Specific Course Requirements:

BA 260	Legal Environment of Business	3
Comp 252	Professional/Technical Writing	4
GS 325	Law, Lawyers, and Legal Education	4
Subtotal Specific Course Requirements		11

Elective Courses. A minimum of 11 credits of Elective Courses are required. At least 7 of those 11 credits must be upper division. No more than 4 credits of Elective course credit shall come from any Internship.

BA 313	Ethical Issues in Business	3
BA 315	International Business Law	3
BA 316	Tourism and Recreation Law	3
PS 140	Intro to Law and Legal Systems	4
PS 241	Intro to Criminal Justice Systems	4
PS 340	Constitutional Law: Bill of Rights	4
PS 341	Constitutional Law: Federalism and Separation of Powers	4
PS 400/SOC 400	Native American Law and Politics	4
PS 423	Philosophy of Law	4
PS 425	Prisons and Prisoners	4
PS 492	Political Science Internship	3-4
Any other course approved by pre-law advisors.		

Elective courses chosen to satisfy the Pre-law Minor shall not be used to satisfy Political Science, Business Administration, Sociology, or Sociology-Criminology majors. Courses required or chosen to satisfy Political Science, Business Administration, Sociology, and Sociology-Criminology majors shall not be used to satisfy Pre-Law Minor electives.

TOTAL REQUIRED FOR PRE-LAW MINOR 22

PSYCHOLOGY

Course listings for Psychology (PSYC) begin on page 191.

Department Chair - Beverly Chew
Professors - Betty J. Dorr, Beverly R. Chew, Janet L. Jones, and Thomas A. Skurky
Associate Professors - Michael C. Anziano, Alane S. Brown, and Ziarat Hossain
Assistant Professors - Brian A. Burke, Susan Kraus, and Sharon R. Sears
Visiting Professor - Michael Uhes

The Psychology major is designed to meet the needs of many students, all of whom have an interest in the scientific study of behavior and its causes, which is the most general definition of modern psychology. Some students may wish to pursue psychology in depth; others may prefer to approach psychology from a more general interdisciplinary perspective within the liberal arts tradition.

The needs of all psychology students are addressed by a major that is demanding, yet flexible; a major that ensures exposure to current thinking and techniques of modern psychology, but at the same time allows students to explore their own interests and set their own goals. As they become more familiar with the field of psychology and more aware of individual interests, students are encouraged to redefine their goals. Students are encouraged to work closely with their advisors to meet their academic and professional goals.

If you are interested in graduate school and planning to take the Graduate Record Examination (GRE) in the content area of psychology, the following classes are strongly recommended as your psychology electives: Psyc 254 Lifespan Human Development, Psyc 327 Physiological Psychology, Psyc 342 Psychological Testing, Psyc 383 History of Psychology, Psyc 387 Abnormal Psychology, Psyc 425 Social Psychology, Psyc 441 Memory and Cognition.

A minor in Psychology is available for students majoring in other disciplines. Requirements for a minor in Psychology are listed at the end of this section.

PSYCHOLOGY MAJOR

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN PSYCHOLOGY:

General Education

See pp. 23-27 for General Education requirements.

39

Specific Departmental Requirements:

1. Core Program (ALL required; complete in the order listed):	
Psyc 157 Introduction to Psychology	3
Psyc 241 Basic Statistics for Psychologists	4
Psyc 296 Psychological Research Methods	4
Psyc 300 Methods of Inquiry	4
Psyc 496 Senior Seminar	4
Subtotal Core	19
2. Foundations of Psychology - 16 credits (any 4 courses) from the following group:	
Psyc 327 Physiological Psychology	4
Psyc 330 Animal Behavior	4
Psyc 342 Psychological Testing	4
Psyc 354 Topics in Child Psychology	4
Psyc 375 Multicultural Psychology	4
Psyc 383 History of Psychology	4
Psyc 387 Abnormal Psychology	4
Psyc 425 Social Psychology	4
Psyc 441 Memory and Cognition	4
Subtotal Foundations	16
3. Psychology Electives	8
The student must complete an additional 8 credits in psychology. The remaining 8 credits required for the major may be selected from any courses offered in the department, including Foundational Courses. No more than 4 credits of Independent Study (Psyc 299/Psyc 499) will be accepted. No more than 6 credits of off campus coursework or Innovative Month will be accepted. Students are urged to work closely with their advisors in choosing the most appropriate array of courses for their interests and plans.	
Total Departmental Requirements	43

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

PSYCHOLOGY MINOR

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Psychology may complete a minor in Psychology upon satisfactorily completing the following requirements:

A minor in psychology consists of at least 19 required credits, at least 8 of which must be upper division. Psyc 157 and at least one course from the Foundations of Psychology group are required.

TOTAL REQUIREMENTS FOR PSYCHOLOGY MINOR 19

RELIGIOUS STUDIES

Course listings for Religious Studies (RS) begin on page 193.

Coordinator - Dr. Kenyon Bunch

Professors – Kenyon Bunch, Kathleen Fine-Dare, Reyes Garcia, David L. Kozak, and Neil McHugh

Associate Professors - Alane Brown, Robert R. Bunting, Dugald L. Owen, and Richard M. Wheelock

Assistant Professor - Kalin L. Grigg

RELIGIOUS STUDIES MINOR

Religion has been and remains one of the most powerful influences shaping individual and collective human world views and behavior. The minor in Religious Studies uses an interdisciplinary approach to explore various religious traditions, how those religious traditions have shaped history, and in-turn how those religious traditions have been acted upon by historical processes. The minor allows students to examine through texts, symbols, myths, rituals, ideas, values, and ethical systems how a variety of religious traditions have interacted with cultural systems to shape social, economic, political, class, ethnic, racial, and gender concerns. Since religious understandings are central to people and culture, then and now, Religious Studies courses offer students not only an opportunity for self-awareness but the basis for living in a global, multicultural world. In addition, course work in Religious Studies can prepare students for faith-based service in a church, synagogue, or mosque, activist civic engagement, social justice initiatives, as well as provide a solid foundation for graduate schools and careers in teaching, counseling, business, law, writing, the arts, and professional religious leadership positions.

REQUIREMENTS FOR THE MINOR IN RELIGIOUS STUDIES:

No more than one course from a student's major may count in any minor. A student majoring in any discipline may complete a minor in Religious Studies upon satisfactorily completing the following requirements:

1. The Religious Studies minor requires the completion of at least 18 credits of work in courses from the class listing (found below).
2. A minimum of 9 credits must be upper-division.
3. Two courses must be taken from the World Traditions area. One course must be taken from each of the other two concentration areas in the minor: Religion, Society, and Culture; and Religion in America.

AREAS OF CONCENTRATION AND COURSES:

World Traditions		
Engl 128	The Bible As Literature	4
Hist 349	Islam in History	4
Phil 244/RS 244	Chinese Philosophy	3
Phil 321/RS 321	World Religions	4
RS 385	Historical Jesus	3
RS 446	Ancient Israel and Judah	3

Religion, Society, and Culture		
Anth 215	Magic and Religion	3
Hist 308/RS 308	The Rise of Christianity	4
Phil 261/RS 261	Philosophy of Religion	4
Phil 320/RS 320	Indigenous Worldviews	4
PS 300	Religion and Politics	4
Psych 310	Psychology of Religion	4
Soc 340	Religion and Social Life	4

Religion in America		
Hist 315	Irish, Catholic, American	4
Hist 328/RS 328	Christianity in U.S. History	4
SW 322	American Indian Philosophies	3

Relevant courses from a variety of disciplines may also be offered as 190/191 or 390/391 courses. See the Religious Studies coordinator and/or advisors about current offerings that could be applied toward a minor. **PRIOR APPROVAL FROM COORDINATOR OF THE PROGRAM MUST BE OBTAINED IN ORDER TO HAVE THESE COURSES INCLUDED AS PART OF THE MINOR.** Additional courses may be added to this list from time to time; consult the Religious Studies coordinator for current listings.

SOCIOLOGY/HUMAN SERVICES

Course listings for Sociology/Human Services (SOC) begin on page 194.

Department Chair – Kalin L. Grigg

Associate Professors - Janine M. Fitzgerald, Dennis W. Lum, Mark C. Seis, and Carey Vicenti

Assistant Professors – Keri J. Brandt, Kalin L. Grigg, and Patricia Sanchez-Flavian

Sociology seeks to explore how our individual and collective biographies intersect history within society. The relationships between social structure and individual consciousness, historical processes and everyday life, and collective interests and individual prerogatives provide the sociological substance by which we become self-conscious. It is through the study of sociology that we become aware of the meaning of our everyday lives and recognize the extent to which we participate in the construction of social formations.

The sociological task of comprehending the relationships among individuals and groups is a significant part of any student's educational experience. Extensive work in sociology is recommended for students planning careers in human services. Health services administration, family casework, community planning and development, and criminal justice work are typical human service careers. Moreover, an emphasis in sociology provides foundational preparation for graduate work in sociology, social work, public administration, law, journalism, and other fields.

In order to cultivate critical consciousness and active participation in processes of development and change in society, the Sociology/Human Services curriculum is organized to facilitate the integration of theory (reflection) and practice (action). While participation in the human service and practicum courses forms the nucleus of the praxis experience, the Block Internship, Latin American, Community Services, and Service Learning programs all provide further opportunities for engaging in field experience.

In addition to the General option, the Sociology Department offers options in Criminology and Ethnic Studies. Students may choose only one option to complete their Sociology major.

A minor in Sociology/Human Services is available for students majoring in other disciplines. Requirements for a minor in Sociology/Human Services are listed at the end of this section.

SOCIOLOGY BLOCK INTERNSHIP PROGRAM

The Sociology Block program is designed to integrate 16 credits of Sociology course work with an intensive community placement in a regionally-based, community-based, non-profit grassroots organization or a community-based research project. The goal of the program is to provide an educational experience in which academic study is integrated around, and driven by, a community-based service internship. Service placements are organized according to student interest and the ability of the community-based program to provide a high-quality educational and community service experience for the student. Students are expected to serve as responsible participants in the programs to which they are assigned. While the schedule for internship hours varies according to the needs of the particular placement, students are expected to work approximately 20-25 hours per week in their placement. In addition, students are responsible for completing all of the assigned coursework, most of which will be integrated into a single final paper. Students will be assigned to one of three participating Sociology faculty members who will serve as the students' primary mentors in both the academic and community-based work. Students enrolled in the Sociology Block Program should not be enrolled in any other courses while taking the Block.

MEXICO PROGRAMS

Fort Lewis College has encouraged a number of Study Abroad opportunities in Mexico. The main purpose of these programs is to develop fluency in the use of the Spanish language and to acquire an in-depth knowledge of the culture of Spanish-speaking people by immersion and by studying specific courses in the social sciences and arts oriented toward this goal. The normal duration of this experience is one or two semesters. Most opportunities to study in Mexico require a good background in the language at least equivalent to one year of college-level Spanish. Students are strongly encouraged to live with a Mexican family. Students who are interested should contact the chair of the Sociology Department.

SOCIOLOGY/HUMAN SERVICES – GENERAL OPTION

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/HUMAN SERVICES – GENERAL OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Soc 100	Introduction to Sociology	4
Soc 200	Social Change and Human Services	4
Soc 210	Ethnography and Writing	4
Soc 300	Theories of Social and Personal Life	4
¹ Soc 320	Community Service Practicum	8
Soc 421	Contemporary Social Analysis in the Southwest	4
Soc 496	Senior Seminar	4

Subtotal Specific Departmental Requirements 32

Other Departmental Requirements:

A minimum of 12 additional credits in Sociology/
Human Services 12

Total Departmental Requirements 44

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION **120**

¹Up to 8 credits of WS 320 may be substituted for up to 8 credits of Soc 320.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

SOCIOLOGY/HUMAN SERVICES – CRIMINOLOGY OPTION

The Criminology option explores how historically-generated political, economic, and power/knowledge systems influence the creation of laws, attitudes and perceptions about crime, and the actual functioning of our contemporary criminal justice system. Criminal behavior and juvenile delinquency are also examined in light of historically-generated social, economic, and political conditions. The Criminology option is designed to give students a thorough understanding of the political nature of law creation, enforcement, adjudication, and punishment, as well as a thorough understanding of the bureaucratic structure of these various components of the criminal justice system. Alternative Native American and restorative justice systems and concepts are also explored as viable ways of thinking about problems of crime.

The Criminology option offers a unique opportunity to examine the relationship between theory and practice. Students in the criminology option are required to participate in a semester-long internship where students work and study within various criminal justice-related social service programs.

The Criminology option provides excellent opportunities for those students interested in graduate school or a career in 1) law; 2) law enforcement; 3) probation; 4) social work; or 5) corrections.

A minor in Criminology is available for students majoring in other disciplines. Requirements for a minor in Criminology are listed at the end of this section.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/HUMAN SERVICES – CRIMINOLOGY OPTION:

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

Soc 100	Introduction to Sociology	4
Soc 210	Ethnography and Writing	4
PS 241	Introduction to Criminal Justice Systems	4
Soc 320	Community Service Practicum	1 -
16		
Soc 362	Criminology and Criminal Justice	4
Soc 363	Juvenile Delinquency	4
Soc 421	Contemporary Social Analysis in the Southwest	4
Soc 496	Senior Seminar	4

Subtotal Specific Departmental Requirements 29-44

Other Departmental Requirements:

A minimum of 12 additional credits, with at least 8 of those in upper division courses to be chosen from the following course selections:

Phil 251	Moral Philosophy	4
Phil 252	Environmental Ethics	4
PS 140	Introduction to Law and Legal Systems	4
PS 330	Public Administration	4
PS 340	Constitutional Law: Bill of Rights	4
PS 341	Constitutional Law: Federalism and the Separation of Powers	4
PS/Soc 400	Native American Law and Politics	4
PS 423	Nature of Law and Judicial Process	4
PS 425	Prisons and Prisoners	4
Psyc 233	Personality*	4
Psyc 325	Group Dynamics*	4
Psyc 342	Psychological Testing*	4
Psyc 387	Abnormal Psychology*	4
Psyc 392	Foundations of Clinical Psychology*	4
Soc 361	Deviance	4

*Courses followed by an asterisk have prerequisites.

Subtotal Other Departmental Requirements 12

TOTAL DEPARTMENTAL REQUIREMENTS **41-56**

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

SOCIOLOGY/HUMAN SERVICES – ETHNIC STUDIES OPTION

The Ethnic Studies option explores the multiple meaning of ethnicity and the reasons for its continuing strength as a crucial source of group identity for large numbers of people in the contemporary world. Special consideration is given to the relation of these meanings to the phenomena of the nation state and national identity. There is also a focus on the intersection of ethnicity with class and gender.

This option emphasizes ethnic groups and their histories in the United States, including African Americans, Asian Americans, Chicano/Latino Americans, and Native Americans. Students will receive 16 credits for an intensive internship with a community-based organization that works with a minority ethnic group in the Four Corners region.

Through their experience and study, students have the opportunity to consider the important elements of ethnicity, such as religion, language, gender roles, and political and ecological culture. Students consider both their own ethnic backgrounds and those of other groups.

The Ethnic Studies option provides excellent opportunities for those students interested in graduate school or a career in human services working with ethnic minorities.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/HUMAN SERVICES – ETHNIC STUDIES OPTION:

General Education 39
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

GS 101	Human Heritage I	4
	OR	
Soc 250	Social Issues-Native Society	4
Soc 210 ¹	Ethnography and Writing	4
Soc 279	Ethnicity, Gender and Class in the SW	4
Soc 300	Theories of Social and Personal Life	4
Soc 320 ¹	Community Service Practicum	8
Soc 421 ¹	Contemporary Social Analysis in the Southwest	4
Soc 496	Senior Seminar	4

Subtotal Specific Departmental Requirements 32

¹ Courses marked with a single asterisk are part of the Sociology Block program. Students in the Ethnic Studies option must work with a community-based organization that focuses on ethnic issues.

Other Departmental Requirements:

A minimum of 16 additional credits to be chosen from the following course selections:

Anth 215	Magic and Religion	3
Anth 350	Ethnology of Mesoamerica	4
Anth 351	Ethnology of Andean South America	4
Anth 353	Ethnology of India	4
Anth 371	Ethnology of Amazonian South America	3
Anth 388	Ethnology of the Southwest	4
Anth 406	Ethnobotany of the Southwest	4
Engl 174	African-American Literature	4
Engl 176	Native American Literature	4
Engl 177	U.S Latina/o Literature	4
Engl 280	Literature of the Southwest	4
Engl 380	Native American Lit: Topics*	4
GS 102	Human Heritage II	4
Hist 348	Africans in the Americas	4
Hist 349	Islam in History	4
Hist 351	U.S.-East Asian Relations	4
Hist 373	History of Mexico	4
ML 100/SW100	Fundamentals of Navajo Language	3
ML 101/SW 101	Navajo Language II	3
ML 118	Spanish of the Southwest	4
ML 318	Advanced Spanish of the Southwest	4
ML 331	Chicano Literature*	4
Phil 244	Chinese Philosophy*	3
Phil 261	Philosophy of Religion	4
Phil 320	Indigenous World Views	4
Phil 382	Philosophies of the Southwest	3
PS/Soc 400	Native American Law and Politics	4
Psyc 375	Multicultural Psychology*	4
Soc 301	Comparative Societies	4
Soc 340	Religion and Social Life	4
SW 123	American Indian History	3
SW 125	History of Hispanos in the Southwest	3
SW 280	Native Americans in the Modern World	3
Any SW 300 level and above		3-4

*Courses followed by an asterisk have prerequisites.

Subtotal Other Departmental Requirements 16

TOTAL DEPARTMENTAL REQUIREMENTS 48

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

SOUTHWEST STUDIES AND AMERICAN INDIAN STUDIES

Course listings for Southwest Studies (SW) begin on page 196.

Department Chair - Peter McCormick

Professors - Robert R. Bunting, Andrew J. Gulliford, and Duane A. Smith

Associate Professor - Richard M. Wheelock

Assistant Professor - Peter McCormick

The Department of Southwest Studies and American Indian Studies offers an interdisciplinary approach to the study of the American Southwest. By understanding the region's distinct environments and diverse cultures and how those peoples and environs interacted to define and redefine one another, graduates will find their lives deepened and their career opportunities in teaching, government, museum work, archives, public history, and graduate school admissions enhanced. To fully grasp a broad-based and in-depth understanding of the region, a variety of course selections are offered from the natural sciences, social sciences and fine arts.

A major in American Indian Studies or Southwest Studies must complete 45 credits. The 45 credits consist of 15 credits of core courses, 15 credits of concentration courses, and 15 credits of southwest elective courses. At least 27 of the 45 total credits of course work needed for a Southwest Studies or American Indian Studies major must be at the 300- and 400- levels.

The American Indian Studies degree embraces the study of Native peoples of North, Central and South America and Indigenous peoples of the world.

In addition to offering majors in American Indian Studies and Southwest Studies, the department also offers a minor in Southwest Studies and American Indian Studies. This minor consists of 18 credits of course work within the department, with at least 9 of those credits being upper-division courses. The minor in Native American Studies is listed at the end of this section.

AMERICAN INDIAN STUDIES

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN AMERICAN INDIAN STUDIES:

Coordinator - Richard M. Wheelock

General Education **39**
See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

SW 110	Introduction to American Indian Studies	3
SW 123	American Indian History	3
SW 280	Native Americans in the Modern World	3
SW 301	Writing/SW Studies Discipline	3
SW 355	Development of US Indian Policy	3
SW 493	Intern SW Studies	3-6
SW 496	Senior Seminar	3
Subtotal Specific Departmental Requirements		21-24

Distribution Requirements:

Literature, Arts, and Media (minimum 2 courses):		
Art/SW 368	Native North American Art History	3
Engl 176	Native American Literature	4
Engl/SW 380	Native American Lit: Topics	4
SW 115	Native American Newsletter	3
SW 315	Native American News Writing	3
SW 317	History of American Indians in Film	3
SW 327	American Indians & Mass Media	3
SW 344	Native American Oral Tradition	3

Culture, Language, Cosmology (minimum 2 courses):

Anth 120	Anthropology of the Southwest	3
ANTH 330	Archaeology of the Southwest	4
ANTH 348	North American Archaeology	4
ANTH 388	Ethnology of the Southwest	4
ML/SW 100	Fundamentals of Navajo Language	3
ML/SW 101	Navajo Language II	3
SW 322	American Indian Philosophies	3

Economics, Politics, and Law (minimum 2 courses):

PS/SOC 400	Native American Law and Politics	4
SOC 250	Social Issues – Native Society	4
SW 323	Southwest Indian History	3
SW 450	Tribal Preservation	3

NOTE: SW 190/191 or SW 390/391 courses may be used to fulfill Distribution Requirements with the approval of the American Indian Studies Coordinator.

Subtotal Distribution Requirements 21-24

Total Departmental Requirements 45

Free Electives (Variable)

TOTAL REQUIRED FOR GRADUATION **120**

A minimum of 45 credits are required for the major, at least 27 credits of which must be at the 300 and 400 level.

Students may double major in American Indian Studies and another major or combine the major with a minor, but all coursework must be discrete and unique.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

SOUTHWEST STUDIES

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES:

General Education

39

See pp. 23-27 for General Education requirements.

Specific Departmental Requirements:

SW 131	Southwest History and Culture OR	
SW 135	The Southwest	3
SW 301	Writing/Southwest Studies Discipline	3
SW 383	Southwest History to 1868	3
SW 384	Southwest History 1868 to Present	3
SW 496	Senior Seminar	3
Subtotal Specific Departmental Requirements		15

Other Departmental Requirements:

Two of the following courses in the Historic and Contemporary Southwest:

SW 125	History of Hispanos in the Southwest	3
SW 136	The Southwest	3
SW 280	Native American in the Modern World	3
SW 323	Southwest Indian History	3
SW 342	Interpretation of Cultural Resources	3

One of the following courses from the Natural World:

SW/HIST 181	U.S./Southwest Environmental Hist	3
SW 333	Wilderness in America	3
SW 335	National Parks: America's Best Idea	3

Two of the following courses in Art, Literature, and Culture:

ART/SW 265	Art History of the Southwest	3
SW 317	History of American Indians in Film	3
SW 318	History of Chicanos in Film	3
SW 326	West and Southwest in Film and Fiction	3
SW 330	Cowboys, Cattlemen, and Pop Culture	3
SW 380/Engl 380		
Native American Literature: Topics		4
SW 382	Hispano Lit, Art, Cult	3
SW 402	Contemporary Art and Literature of the Southwest	3
Subtotal Other Departmental Requirements		15

Southwest Elective Courses:

Choose 15 credits from the following courses:

SW/ML 100	Fundamentals of Navajo Language I	3
SW/ML 101	Navajo Language II	3
SW 110	Intro American Indian Studies	3
SW 115	Native American Newsletter	3
SW 123	American Indian History	3
SW 241	Public History: Scope and Methods	3

SW 255	Introduction to Heritage Preservation	3
SW 256	Introduction to Museums	3
SW 315	Native American News Writing	3
SW 320	West/SW American History	3
SW 322	American Indian Philosophies	3
SW 340	Archival Theory and Practice	3
SW 341	Oral History: Theory and Practice	3
SW 344	Native American Oral Traditions	3
SW 355	Development of United States Indian Policy	3
SW 361	Cultural Ecology of the SW	3
SW 368	Native North American Art History	3
SW 425	Hispanic Civilization	3
SW 450	Tribal Preservation	3
SW 481	Colorado History	3
(SW 481 is the same course as HIST 324--credit will be given for only one of these courses)		
SW 482	Western American Mining	3
(SW 482 is the same course as HIST 322--credit will be given for only one of these courses)		
SW 491	Practicum in Southwest Studies	3
SW 493	Internship in Southwest Studies	1-6
SW 499	Independent Study	1-6
Subtotal Free Electives		15

Should a student desire, up to 8 of the 15 elective course credits can be taken from the following list of approved courses in departments other than Southwest Studies:

Anth 120	Anthropology of the Southwest	3
Anth 259	Field Training in Archaeology (if on a Southwest topic)	4-8
Anth 330	Archaeology of the Southwest	4
Anth 388	Ethnology of the Southwest	4
Anth 406	Ethnobotany of the Southwest	4
Anth 430	Advanced Studies in Southwestern Archaeology	4
Engl 280	Literature of the Southwest	4
Geol 150	Geology of the Southwest	3
ML 115	Elementary Spanish I	4
ML 116	Elementary Spanish II	4
ML 215	Intermediate Spanish I	4
ML 216	Intermediate Spanish II	4
ML 318	Advanced Spanish of the Southwest	4
ML 331	Chicano Literature	4
Phil 382	Philosophies of the Southwest	3
PS/SOC 400	Native American Law and Politics	4
Soc 250	Social Issues in Contemporary Native Societies	4
Soc 279	Ethnicity, Gender, and Class in the Southwest	4
Soc 421	Contemporary Social Analysis in the Southwest	4

TOTAL DEPARTMENTAL REQUIREMENTS 45

Free Electives (Variable)

TOTAL REQUIRED FOR GRADUATION 120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

NATIVE AMERICAN STUDIES MINOR

Coordinator - Richard M. Wheelock, Associate Professor

Native American Studies is an interdisciplinary minor that is intended to provide important support for any major a student might select that could lead to a career in or near Indian Country. For those who live and work there, the unique conditions created by the long history of Indian affairs and the present policy of Indian self-determination warrant a special orientation to the cultural, social, political, and economic aspirations and potential of America's indigenous people.

Students who minor in Native American Studies will be required to take a total of 18 credits, including the core courses for the minor listed below and at least one course from each of the study areas listed below. In doing so, they may select courses that complement their major and contribute to their preparation for careers that demand an understanding of the dynamics of Indian communities.

Students who wish to complete a minor in Native American Studies should consult their advisor and a member of the Department of Southwest Studies and American Indian Studies.

A total of 18 credits are required; at least 9 credits must be upper division.

REQUIREMENTS FOR A MINOR IN NATIVE AMERICAN STUDIES:

No more than one course from a student's major may count in any minor. A student majoring in any discipline other than Southwest Studies or American Indian Studies may complete a minor in Native American Studies upon satisfactorily completing the following requirements:

TWO REQUIRED COURSES:

SW 123	American Indian History	3
	OR	
SW 110	Introduction to American Indian Studies	3
	AND one of the following two:	
Soc 250	Social Issues in Contemporary Native American Societies	4
	OR	
SW 280	Native American in the Modern World	3

Choose at least one Course (literature, arts, and media):

SW 115	Native American Newsletter	3
SW 315	Native American News Writing	3
SW 317	History of American Indians in Film	3
SW 327	American Indians and the Mass Media	3
SW 365	Mesoamerican Art History	3
SW 368	Native North American Art History	3
SW 380	Native American Literature: Topics	4
Thea 382	American Indian Theatre	4

Choose at least one Course (culture, language, and cosmology):

Anth 120	Anthropology of the Southwest	4
Anth 330	Archaeology of the Southwest	4
Anth 348	North American Archaeology	4
Anth 388	Ethnology of the Southwest	4
Anth 406	Ethnobotany of the Southwest	4
Ed 331	Southwest Minority Child in the Classroom	3
SW/ML 100	Fundamentals of Navajo Language I	3
SW/ML 101	Navajo Language II	3
SW 322	American Indian Philosophies	3
SW 361	Cultural Ecology of the SW	3
SW 425	Hispanic Civilization	3

Choose at least one Course (economics, politics, and law):

PS/SOC 400	Native American Law and Politics	4
Soc 250	Social Issues in Contemporary Native Societies	4
SW 280	Native American in Modern World	3
SW 323	Southwest Indian History	3
SW 355	Development of United States Indian Policy	3

TOTAL CREDITS REQUIRED FOR NATIVE AMERICAN STUDIES MINOR

18

STUDENT CONSTRUCTED MAJOR

Contact the Coordinator for Student Constructed Majors, Dr. Robert R. Bunting.

The Student Constructed Major (SCM) allows a student to design a major to meet specific needs and purposes that cannot be met in any other way. The SCM is interdisciplinary in nature and differs substantially from established curriculum course combinations and emphases already available through major, minors, and electives. The major may include course offerings from any of the schools (Behavioral and Natural Sciences; Arts, Humanities and Social Sciences; or Business Administration) and courses from the Teacher Education Department.

The Student Constructed Major is designed in consultation with the SCM Coordinator in the Academic Advising Center, who will guide the student to the appropriate faculty advisor depending on subject and/or course content of the major. The formal contract for the Student Constructed Major must be submitted prior to petitioning for graduation (80 credits, approximately the end of the first term of the junior year). The SCM contract must be approved by the student's faculty advisor, the Registrar (or designee), the Dean of the appropriate school, and the Vice President for Academic Affairs (or designee). On the final transcript, the major will appear as "Student Constructed Major – " followed by the title of the Student Constructed Major.

Student Constructed majors are comprised of a minimum of 44 credits of course work. The coursework must include at least two credits of an appropriate departmental senior seminar (496) or a senior year independent study (499). Forty percent of courses must be numbered 300 or above. EGC courses (Education for Global Citizenship) may not be used to satisfy any major requirements.

Students interested in a Student Constructed major must begin the process through the Academic Advising Center, 140 Miller Student Center, 970-247-7085.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A STUDENT CONSTRUCTED MAJOR:

General Education

39

See pp. 23-27 for General Education requirements.

Specific Requirements for the Major:

Minimum of 44 credits of course work (must include at least two credits of a 496 Senior Seminar or a 499 Independent Study taken during the senior year)⁴⁴

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION

120

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

TEACHER EDUCATION

Teacher Education (ED) course listings begin on page 159.

Director of Teacher Education - David Hayes

Professors – David Hayes and Stephen A. Roderick

Associate Professors - Joe Lounge, Gene Taylor, and Jennifer Trujillo

Assistant Professors – Richard Fulton, Kristine Greer, and Mary Lynne Herr

Visiting Instructor - Toi Creech

Fort Lewis College offers a Teacher Education Licensure Program designed to enable students to qualify for a Colorado teaching license. The program makes it possible both to complete a bachelor's degree and qualify for a teaching license within four academic years. All students are encouraged to schedule a meeting with the Director of Teacher Education as early as possible regarding the Teacher Education Licensure Program, approved majors, and requirements necessary for licensure. The Teacher Education Department is located on the top floor of Education and Business Hall (EBH 244). Students may also visit the Teacher Education website at <http://extended-campus.fortlewis.edu>.

The Fort Lewis College Teacher Education Department endeavors to attract individuals with a high potential for successfully completing teacher preparation courses and fieldwork. The Director of Teacher Education serves as the contact person for curriculum advising.

STEPS TO BECOMING A LICENSED TEACHER

Undergraduate Students: Undergraduate students interested in seeking teaching licensure at Fort Lewis College should fully understand that there are several steps in the process. The Director of Teacher Education can answer any questions about the process. Interested students are encouraged to schedule an appointment with the Director (EBH 244) for this purpose. The steps to teacher licensure for undergraduate students are as follows:

- 1) Students must select the approved major for their chosen licensure area, as indicated below under Teacher Licensure Programs Offered at Fort Lewis College and Approved Corresponding Majors.

In consultation with an academic advisor in the appropriate major, and during their first term, students should plan a program of studies that will qualify them to graduate and meet licensure requirements in a four year period, if that is their goal. Interdisciplinary Studies majors seeking elementary education or early childhood education licensure should be advised by a Teacher Education faculty member. Students must meet with their academic advisor prior to registration each term.

Students seeking licensure in a K-12 or 7-12 area will be advised by a faculty member in their major. These students also should meet with the Director of Teacher Education during their first term at Fort Lewis College to be assigned to a Teacher Education advisor. The Teacher Education advisor will help the student understand the requirements and policies leading to licensure, and will help them in developing their program of studies. Students must meet with their academic advisors prior to registration each term.

- 2) Upon earning at least 30 credits, students may apply for admission to the Teacher Education Licensure Program. To do so, students must secure an application from the Teacher Education Department, complete the application, and return it to the Teacher Education Department. Admission requirements are indicated below. Applicants who meet these requirements will receive a letter indicating their admission. Students who have not been admitted to the Teacher Education Licensure Program are not eligible to take the 400-level methods courses needed for licensure.
- 3) Students who have been admitted to the Teacher Education Licensure Program must apply for student teaching by the third Friday of the first month of the term that precedes their student teaching term. Requirements for admission to student teaching are indicated below.
- 4) Students who complete student teaching must apply to the Colorado Department of Education for Colorado licensure. Requirements for being recommended for licensure are indicated below.

Post-baccalaureate Students: Students who have already earned a bachelors degree typically seek teaching licensure and not a second degree. Therefore post-baccalaureate students are admitted to Fort Lewis College as unclassified students and do not choose a major. Post-baccalaureate students interested in seeking teaching licensure at Fort Lewis College should fully understand the several steps in the process prior to applying for admission to Fort Lewis College. The steps to teacher licensure for post-baccalaureate students are as follows:

- 1) Potential students should submit a letter to the Director of Teacher Education, Fort Lewis College, Durango CO 81301. In this letter potential students should specify the licensure program of interest (programs are listed below) and should include in the same mailing copies of transcripts from all colleges attended. The transcripts may be unofficial at this point. The Director of Teacher Education will then review the transcripts and send information to the potential student on the courses he/she needs to complete in the chosen licensure program and other information about the program.
- 2) Following this transcript evaluation process, interested post-baccalaureate students should schedule an appointment with the Director of Teacher Education to address concerns or questions, to establish a GPA for the purpose of later admission to the Teacher Education Licensure Program, and to plan a program of studies. Note: Establishing the GPA is based on several factors and will be explained to potential students in information sent to them in step one, above.
- 3) Following this appointment, interested post-baccalaureate students should apply for admission to Fort Lewis College.
- 4) Post-baccalaureate students admitted to Fort Lewis College are advised by the Director of Teacher Education. Students should meet with their advisor each term prior to registration.
- 5) Post-baccalaureate students may apply for admission to the Teacher Education Licensure Program once they have met the requirements indicated below. Post-baccalaureate students must secure an application from the Teacher Education Department, complete the application, and return it to the Teacher Education Department. Students who have not been admitted to the Teacher Education Licensure Program are not eligible to take the 400-level methods courses needed for licensure.

- 6) Post-baccalaureate students who have been admitted to the Teacher Education Licensure Program must apply for student teaching by the third Friday of the first month of the term that precedes their student teaching term. Requirements for admission to student teaching are indicated below.
- 7) Post-baccalaureate students who complete student teaching must apply to the Colorado Department of Education for licensure. Requirements for being recommended for licensure are indicated below.

TEACHER LICENSURE PROGRAMS OFFERED AT FORT LEWIS COLLEGE AND APPROVED CORRESPONDING MAJORS

Undergraduate students interested in being licensed as a teacher in Colorado must first choose an academic major that corresponds to a specific licensure program. The licensure programs and their corresponding academic majors follow. The requirements for the selected licensure program are found under each major's teaching option.

- Early Childhood Education Licensure (birth to 3rd grade)
 - > Academic Major: Interdisciplinary Studies Major-Teacher Education option
- Elementary Education Licensure (grades K-6)
 - > Academic Major: Interdisciplinary Studies Major-Teacher Education option
- Secondary English Licensure (grades 7-12)
 - > Academic Major: English-English for Secondary Teachers option
- Secondary Mathematics Licensure (grades 7-12)
 - > Academic Major: Mathematics-Mathematics for Secondary Teachers option
- Secondary Science Licensure (grades 7-12)
 - > Academic Major (one of the following four majors):
 - Biology - Biology for Secondary Teachers option
 - Chemistry - Chemistry for Secondary Teachers option
 - Geology - Earth Science for Secondary Teachers option
 - Physics - Physical Science for Secondary Teachers option
- Secondary Social Studies Licensure (grades 7-12)
 - > Academic Major: History-Social Studies for Secondary Teachers option
- Secondary Spanish Licensure (grades 7-12)
 - > Academic Major: Spanish-Spanish for Secondary Teachers option
- Art Licensure (grades K-12)
 - > Academic Major: Art- The Art K-12 Teaching option

- Music Licensure (grades K-12)
 - > Academic Major: Music-The Music K-12 Teaching option
- Physical Education Licensure (grades K-12)
 - > Academic Major: Exercise Science-The Exercise Science K-12 Teaching option

ADDITIONAL LICENSURE OPTIONS

Additional Licensure Options: Students in all licensure programs may seek an add-on licensure in Linguistically Diverse Education (often referred to as English as a Second Language). Students who have added licensure in Linguistically Diverse Education may also seek an add-on licensure in Linguistically Diverse Education Specialist: Bilingual Preparation. As both of these add-on licensure programs entail additional coursework, students should expect that the time needed to complete both the primary licensure program and an add-on will exceed four years. Interested students should speak with Dr. Jennifer Trujillo, Program Coordinator, EBH 248.

It is also possible for ISM students to become licensed in both Elementary Education and Early Childhood Education without additional coursework. Students interested in this option should speak with their advisors or with the Director of Teacher Education.

REQUIREMENTS FOR ADMISSION TO THE TEACHER EDUCATION LICENSURE PROGRAM

To gain admission to the Teacher Education Licensure Program, students secure an application from the Director of Teacher of Education and, once completed, schedule an admission appointment with the Director. Admission requirements follow:

1. A completed Teacher Education application and a current Fort Lewis College transcript that shows that the applicant is currently enrolled at the College; is in the approved major for the licensure area (or is a post-baccalaureate student seeking licensure only); and has completed a minimum of 30 credits. Students may apply with fewer than 30 credits if they meet application requirements 2-6 below.
2. Completed ED 222 (Education: Global Perspectives) with a minimum grade of B-. It is possible for students to be admitted while taking this course if they meet requirements 3-6, but they will still need to earn a minimum grade of B- in ED 222 as a requirement for student teaching.

3. Submission of fingerprints for a Colorado Department of Education background investigation.
4. Attained a cumulative Fort Lewis College GPA of at least 2.75.
5. Degree seeking students only: Completed Comp 150 or Comp 126 or Comp 250 with a minimum grade of C (not C-).
6. Degree seeking students only: Completed one college level math or approved equivalent course with a minimum grade of C (not C-). Remedial courses are not accepted as a fulfillment of this requirement.

PERC Petition: Applicants who have not attained one or more of the above requirements, except requirement #3, may petition for admission to the Department's Professional Evaluation Review Committee (PERC). The PERC petition may be obtained from the Director of Teacher Education. The PERC is composed of three Teacher Education faculty members who will review the applicant's petition. The PERC will review each case on its merits; not all requests to the PERC are granted.

REQUIRED FIELD EXPERIENCES

Fort Lewis College students in the Teacher Education Licensure Program will complete a minimum of 800 hours of field experience activities throughout their program.

200-Level course: In the introductory education course ED 222 (Education: Global Perspectives), students will begin their field study in area schools.

300-Level courses: Students in all programs will take 300-level courses that include field study components. The number of courses differs among the various programs.

400-Level courses: Students in all programs will take courses that include field study components with the focus on planning and teaching lessons under the direction of veteran classroom teachers. Elementary Education and Early Childhood Education students will be involved in a three-term immersion block program that combines teaching methodology courses with practical application in field study.

Student Teaching: Students in the Secondary and K-12 licensure programs complete a full term of student teaching. The third term block is considered the student teaching term for students in the ISM Major (El Ed and ECE).

REQUIREMENTS FOR ADMISSION TO STUDENT TEACHING

Secondary and K-12 students and ISM EI Ed and ECE second-term immersion block students will attend a special meeting in the first week of the term prior to their intended student teaching term/third-term block. Applications for student teaching/third-term block are distributed at this meeting and must be submitted by the deadline announced at this meeting, typically three weeks after the meeting. For more information, students should contact Will Camp, Coordinator of Field Experiences, EBH 242. Students may apply to student teach in the Durango area or in out-of-area school districts. ISM EI Ed and ECE students who student teach in an out-of-area school district may need to complete their third-term block courses during a summer session.

Requirements for Admission to Student Teaching/ISM Third-Term Block:

- Senior or post-baccalaureate standing.
- Pass the approved PRAXIS II or PLACE content test.
- Successful completion of 100% of coursework prior to the student teaching term.
- Achievement of a minimum cumulative grade point average (GPA) of 2.75 and a minimum 2.75 GPA in courses with an ED designation.
- Earn a minimum grade of C (not C-) in all courses with an ED designation. In addition, students must have earned a minimum B- grade in ED 222.
- Maintain the support of teacher education faculty members. Such support may be withheld for violations of academic integrity or irresponsible actions in field experiences or course work.

PERC Petition: Students not meeting the above requirements may petition for a review by the Department's Professional Evaluation Review Committee (PERC) and may have possible stipulations in order to be allowed to student teach. Not all PERC requests are granted. In no case may a student be allowed to student teach without having passed the approved content test.

Out-of-Area Student Teaching: Reasonable attempts will be made to approve students' requests to student teach out-of-area (more than 70 miles from Durango). Students interested in this option should speak with Will Camp, Coordinator of Field Experiences, EBH 242, well in advance of the student teaching/third-term block. ISM EI Ed and ECE students who student teach out-of-area may need to complete their third-term block courses during a summer session. Students who student teach out-of-area are charged an additional fee to cover the additional cost of supervision.

Required Content Tests: Students will not be placed into student teaching/ISM third-term block until they have passed the required content test for their licensure area by the established testing dates. Thus, students should take their content test prior to the date they will apply for admission to student teaching/third-term block.

- For students planning to student teach/enter third-term block in a Fall term, they should have taken their content test by the November prior to the subsequent Fall Term (for example, if student teaching in Fall 2010, the test should be taken by November 2009). Students' final opportunity to pass their required test in order to student teach in the Fall term will be the March testing date (in the above example, March 2010).
- For students planning to student teach/take their third-term block in a Winter term, they should have taken their content test by the summer prior to the subsequent Winter Term (for example, if student teaching in Winter 2011, the test should be taken by June or July 2010). Students' final opportunity to pass their required test in order to student teach in the Winter Term will be the September testing date (in the above example, September 2010).

Study guides for all tests are on reserve at Reed Library. Students register on-line and can find additional information about the tests by linking to PRAXIS and PLACE from the Teacher Education Web Site (<http://extended-campus.fortlewis.edu/>) Information on test dates also can be found on the bulletin board outside EBH 242.

REQUIRED TESTS BY LICENSURE AREA

- Early Childhood Education: PLACE Test 02
- Elementary Education: PLACE Test 01 or PRAXIS II 10014
- Secondary English: PLACE Test 07 or PRAXIS II 10041
- Secondary Mathematics: PLACE Test 04 or PRAXIS II 10061
- Secondary Science: PLACE Test 05 or PRAXIS II 10435
- Secondary Social Studies: PLACE Test 06 or PRAXIS II 10081
- Secondary Spanish: PLACE Test 09
- K-12 Art: PLACE Test 28
- K-12 Music: PLACE Test 29
- K-12 Physical Education: PLACE Test 32

Add-on Licensure Tests (must be passed to be eligible for licensure, but not required for student teaching):

- Linguistically Diverse Education: PLACE Test 17
- Linguistically Diverse Education Specialist: Bilingual Preparation: PLACE Test 16

COMPLETION OF STUDENT TEACHING

To complete the Teacher Education Licensure Program, all students must receive a satisfactory grade in student teaching. Students must demonstrate satisfactory performance in their student teaching placement and must also complete a successful summative portfolio presentation as a condition for completing student teaching.

THE SUMMATIVE PORTFOLIO PRESENTATION

The portfolio presentation represents verification that the student has gained proficiency on each of the 45 elements of the eight Performance Based Standards for Colorado Teachers (PBSCTs). A summative portfolio developed by the student teacher must be presented during the student teaching term. A portfolio includes examples of the candidate's best work and illustrates the teaching skills acquired. Students are advised to keep samples of work completed during the professional education classes as well as during student teaching for possible inclusion in their portfolio. A current collection of portfolio assessment rubrics, detailing the expected content and format of the portfolio presentation, is included in the student teacher handbook.

A three-member portfolio panel evaluates the presentation and determines whether the student has passed the portfolio presentation. The panel consists of members of Fort Lewis College faculty and staff, K-12 educators, and community members. The student teacher is responsible for choosing one panelist for the portfolio review. Students who fail the portfolio are required to consult with a designated Teacher Education faculty member for remediation and subsequently schedule a second presentation. Students who fail the summative portfolio presentation a second time will be given the opportunity for more substantial remediation, which could include repeating coursework or student teaching.

RECOMMENDATION FOR LICENSURE

Upon successful completion of the Teacher Education Licensure Program, students may apply for a Colorado Teaching License. The Teacher Education Department will recommend students for Colorado licensure if they meet the following requirements:

- Successful completion of a Bachelor's Degree in the approved major (undergraduate students) or completion of all content and teaching education licensure course requirements (post-baccalaureate students).
- Successful completion of student teaching (which includes passing the summative portfolio as described above).
- Passing the approved PRAXIS II or PLACE content test.
- Submission of required materials to the Director of Teacher Education.

Students wishing to apply to another state are advised to contact the appropriate Department of Education for information about specific requirements.

THEATRE

Course listings for Theatre (THEA) begin on page 198.

Department Chair - Kathryn Moller
 Professor - Kathryn S. Moller
 Assistant Professors - Ginny A. Davis and Nathan Lee
 Visiting Instructors - Anne Berg and Lisa Kramer

The Theatre major enables students to fully explore their potential as literate, articulate, and humane members of society through a close study of the theory and practice of theatre. Students so trained are able to bring highly developed communication skills, flexibility, and creativity to a wide range of career opportunities.

The academic program in the Theatre Department is supported by a strong production program, which is the cornerstone of the department. Performing, technical theatre, and administrative opportunities are open to all students. Auditions and technical theatre interviews are held at the beginning of each term. Participation in production is considered an academic endeavor with course credit available.

The requirements for a minor in Theatre are listed at the end of this section.

THEATRE – THEATRE GENERALIST OPTION

The Theatre Generalist option focuses on the practical and theoretical training areas that will give the student the greatest breadth and depth of knowledge appropriate to a Bachelor of Arts degree in theatre. The practical experience and theoretical knowledge attained in this option are applicable to a variety of performance and fine art venues such as professional theatres, community theatres, radio, film, music venues, movement, and not-for-profit organizations. In addition to preparation for working in these venues, the Theatre Generalist option provides an understanding of the artistic and practical approaches to performing for public and is appropriate preparation for graduate programs and professional preparation programs in Theatre.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE – THEATRE GENERALIST OPTION:

General Education

See pp. 23-27 for General Education requirements.

It is recommended that Theatre majors take EGC courses in Performance Art and/or Performance Studies.

Specific Departmental Requirements¹:

THEA 240	Ancient and Classical Theatre	4
THEA 296	Sophomore Seminar	2
THEA 340	Modern Theatre	4
THEA 342	Asian Performance	4
THEA 300/400	Theatre Production III/Theatre Production IV	6
THEA 460	Internship in Theatre	1-4
THEA 496	Senior Seminar	2
THEA 497	Senior Seminar	2
Subtotal Specific Departmental Requirements		25-28

Other Departmental Requirements:

THEA 135	Acting Techniques I	3
THEA 126	Introduction to The Dance	4
THEA 230	Stage Technology	4
THEA 336	Creating Performance: Directing	4
Subtotal Other Departmental Requirements		15

Theatre Department Electives—select 14 credits from the following:

THEA 100	Theatre Production I	1-4
THEA 101	Introduction to Theatre	4
THEA 156/356	Guest Artist Series	1-3
THEA 166/366	Dance Techniques: Topic	4
THEA 190/390	Special Topics	1-4
THEA 200	Theatre Production II	1-4
THEA 233	Audition Techniques	2
THEA 238	Acting Techniques II	3
THEA 270	Acting for Camera	3
THEA 272	Vocal & Physical Preparation	2
THEA 274	Make-up & Costume Design	4
THEA 299/499	Individual/Independent Study	1-6
THEA 310	Scenic Design & Technology	4
THEA 322	Creative Dramatics	4
THEA 323	Children's Theatre	4
THEA 335	Styles in Acting	3
THEA 369	Playwriting	4
THEA 372	Stage Management	2
THEA 374	Lighting & Sound Design	4

Subtotal Theatre Electives 14

TOTAL MAJOR REQUIREMENTS 54-57

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹Minimum grade of C required in Specific Departmental Requirements.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

THEATRE – PERFORMANCE & DIRECTING OPTION

The option in Performance and Directing combines practical and theoretical training in various disciplines that pertain to the field including Theatre, Art, Psychology, Music, and Technology. The practical experience and theoretical knowledge attained in this option is applicable to a variety of performance and fine art venues such as professional theatres, community theatres, radio, film, video, music, digital venues, movement, and not-for profit organizations. In addition to preparation for working in these venues, the Performance and Directing option provides an understanding of the artistic and practical approaches to performing and directing for theatre and is appropriate preparation for graduate programs and professional preparation programs in Theatre and Performance Studies.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE – PERFORMANCE & DIRECTING OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements¹:</u>	
THEA 240 Ancient and Classical Theatre	4
THEA 296 Sophomore Seminar	2
THEA 340 Modern Theatre	4
THEA 342 Asian Performance	4
THEA 300/400 Theatre Production III/Theatre Production IV	6
THEA 460 Internship in Theatre	1-4
THEA 496 Senior Seminar	2
THEA 497 Senior Seminar	2
Subtotal Specific Departmental Requirements	25-28
<u>Other Departmental Requirements:</u>	
Three (3) of the following courses:	
THEA 126 Introduction to the Dance	4
THEA 135 Acting Techniques I	3
THEA 238 Acting Techniques II	3
THEA 272 Vocal & Physical Preparation	2
Two (2) of the following courses:	
THEA 233 Audition Techniques	2
THEA 270 Acting for Camera	3
THEA 323 Children's Theatre	4
THEA 335 Styles in Acting	3
One (1) of the following courses:	
THEA 230 Stage Technology	4
THEA 374 Lighting & Sound Design	4
Both of the following courses:	
THEA 336 Creating Performance: Directing	4
THEA 166/366 Dance Techniques: Topics	2
Subtotal Other Departmental Requirements	23-27

Auxiliary Department Requirements:

One (1) of the following courses:	
MU 101 The Musical Experience	3
MU 102 Principles in Vocal Ensemble	1
PSYC 157 Introduction to Psychology	3
One (1) of the following courses:	
ART 262 Art History I	4
ART 263 Art History II	4
One (1) of the following courses:	
ENGL 304 Digital Video Production	4
ENGL 308 Interactive Media Production	4
Subtotal Auxiliary Requirements	9-11
TOTAL MAJOR REQUIREMENTS	57-66

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹Minimum grade of C required in Specific Departmental Requirements.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

THEATRE – DESIGN AND TECHNICAL THEATRE OPTION

The Technical Theatre and Design option combines practical theatrical technical and design training with theoretical explorations in various arts histories such as Theatre, Music, and Art. The experience and knowledge attained in this option is applicable to a variety of performance and fine art venues such as professional theatres, community theatres, music venues, dance, and not-for profit arts organizations. In addition to preparation for working in these venues, the Technical Theatre and Design option provides an understanding of the artistic design and technical theatre side of creating performance for public and is appropriate preparation for graduate programs in technical theatre and design.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE – DESIGN AND TECHNICAL THEATRE OPTION:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements¹:</u>	
THEA 240 Ancient and Classical Theatre	4
THEA 296 Sophomore Seminar	2
THEA 340 Modern Theatre	4
THEA 342 Asian Performance	4
THEA 300/400 Theatre Production III/Theatre Production IV	6
THEA 460 Internship in Theatre	1-4
THEA 496 Senior Seminar	2
THEA 497 Senior Seminar	2
Subtotal Specific Departmental Requirements	25-28

<u>Other Departmental Requirements:</u>	
THEA 230 Stage Technology	4
THEA 372 Stage Management	2
Two courses from the following:	
THEA 274 Make-up & Costume Design	4
THEA 310 Scene Design & Technology	4
THEA 374 Lighting & Sound Design	4
Subtotal Specific Departmental Requirements	14
<u>Auxiliary Department Requirements:</u>	
ENGR 103 Computer Aided Drafting	3
ART 109 Visual Foundations I	3
ART 110 Visual Foundations II	3
MU 101 The Musical Experience	3
ART 262 Art History I	4
ART 263 Art History 2	4
Subtotal Auxiliary Requirements	20
TOTAL MAJOR REQUIREMENTS	59-62
Free Electives (variable)	
TOTAL REQUIRED FOR GRADUATION	120

¹Minimum grade of C required in Specific Departmental Requirements.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

THEATRE – ARTS ADMINISTRATION OPTION IN THEATRE

The Arts Administration option in Theatre is designed to combine training in practical theatre and various arts histories—combining theatre, dance, music, and art—with business knowledge applicable to a variety of performance and fine art contexts such as community theatres, music venues, dance, and not-for profit arts organizations. In addition to preparation for working in these venues, the Arts Administration option in Theatre provides an understanding of the business side of creating performance for public and is appropriate preparation for graduate programs in arts administration.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE – ARTS ADMINISTRATION OPTION IN THEATRE:

General Education	39
See pp. 23-27 for General Education requirements.	
<u>Specific Departmental Requirements¹:</u>	
THEA 240 Ancient and Classical Theatre	4
THEA 296 Sophomore Seminar	2
THEA 340 Modern Theatre	4
THEA 342 Asian Performance	4
THEA 300/400 Theatre Production III/Theatre Production IV	6
THEA 460 Internship in Theatre	1-4
THEA 496 Senior Seminar	2
THEA 497 Senior Seminar	2
Subtotal Specific Departmental Requirements	25-28
<u>Other Departmental Requirements:</u>	
THEA 101 Introduction to Theatre	4
THEA 126 Introduction to the Dance	4
Subtotal Other Departmental Requirements	8

SOBA Auxiliary Department Requirements²:

ECON 262 Prin. of Micro Econ.	3
ACCT 225 Accounting	4
BA 240 Business Creativity and Innovation	2
BA 260 Legal Environment of Business	3
BA 340 Marketing	4
One additional course from the following two courses:	
BA 347 Consumer Behavior	3
BA 344 Advertising & Public Relations	3
Subtotal SOBA Auxiliary Requirements	19

Other Auxiliary Department Requirements:

MU 101 The Musical Experience	3
ART 263 Art History II	4
ENGL 315 Media Writing	4
Subtotal Auxiliary Requirements	11

TOTAL MAJOR REQUIREMENTS 63-66

Free Electives (variable)

TOTAL REQUIRED FOR GRADUATION 120

¹Minimum grade of C is required in Specific Departmental Requirements.

²Minimum grade of C- is required in SOBA Auxiliary Requirements.

Note to transfer and former students: If you have taken any of your major requirements and received a different number of credits than listed above, you may need to complete additional major credit requirements.

THEATRE MINOR

REQUIREMENTS FOR A MINOR IN THEATRE:

Departmental Requirements:

One of the following two courses:

THEA 240	Ancient and Classical Theatre	4
THEA 340	Modern Theatre	4

One of the following two courses:

THEA 135	Acting Techniques	4
THEA 230	Stage Technology	4

A total of 4 credits from THEA 300 (Theatrical Production III) and THEA 400 (Theatrical Production IV). Both courses are variable credit from 1-4.

Theatre Electives--a total of 8 credits from:

THEA 100	Theatre Production I	1-4
THEA 101	Introduction to Theatre	4
THEA 156/356	Guest Artist Series	1-3
THEA 166/366	Dance Techniques: Topic	4
THEA 190/390	Special Topics	1-4
THEA 200	Theatre Production II	1-4
THEA 233	Audition Techniques	2
THEA 238	Acting Techniques II	3
THEA 270	Acting for Camera	3
THEA 272	Vocal & Physical Preparation	2
THEA 274	Make-up & Costume Design	4
THEA 299/499	Individual/Independent Study	1-6
THEA 310	Scenic Design & Technology	4
THEA 322	Creative Dramatics	4
THEA 323	Children's Theatre	4
THEA 335	Styles in Acting	3
THEA 369	Playwriting	4
THEA 372	Stage Management	2
THEA 374	Lighting & Sound Design	4

TOTAL REQUIRED FOR THEATRE MINOR **20**

SPECIAL ACADEMIC PROGRAMS

ACADEMIC EXPLORERS

Course listings for the Academic Explorers Program begin on page 172.

Program Coordinator - Lauren Delle

The Academic Explorers Program is available to students who are undecided about a major and want to explore academic options.

The program offers:

- GS 105, Exploring the Liberal Arts, a two-credit elective course that provides undecided students with the tools necessary to narrow down options in their major exploration.
- Advisors who are specially trained to work with and guide undecided students.
- Informational events, planned in conjunction with the Career Services Office, about major and career options.

The program is open to all students who are undecided about their major.

COOPERATIVE EDUCATION PROGRAM

Course listings for the Cooperative Education Program (COOP) begin on page 156.

Program Coordinator - Allyn L. Talg

The Cooperative Education Program, housed in the Career Services Office, offers opportunities for students to apply the skills and knowledge learned in the classroom to the work environment. Students are highly encouraged to integrate an internship experience into their academic plan. Internships allow for greater development of knowledge and skills, and assists in academic and career planning. Internships also help students compete more effectively in the job search as they graduate.

ENROLLING

Because Cooperative Education courses are by instructor permission, the first step is to schedule an appointment with a career counselor at the Career Services Office. Minimum eligibility requirements are a cumulative 2.5 GPA and 30 credits earned. Information about additional requirements and how to enroll are on the Career Services Office website: CSO.fortlewis.edu, click on "Internships/Coop."

CREDIT INFORMATION

Students can earn credits at the 200, 300 and 400 levels. Minimally there is a requirement of 50 hours worked for one credit earned. The maximum number of credits that apply toward graduation is 12. Cooperative Education credits are electives.

GRADING

Students must complete all of the requirements set forth in the course syllabus and by the employer in order to receive the credits. Credits are awarded as Satisfactory (S) or No Credit (NC).

ENRICHMENT PROGRAM

Enrichment courses are one- or two-credit "mini-courses" that are numbered GS 189 and/or GS 389 and are announced after Census Date each semester. Enrichment courses are elective courses only, and are graded pass/fail. Students are limited to a total of 12 pass/fail elective credits and are limited to two Enrichment courses per term. Enrichment courses may not be applied to the major, minor, auxiliary, or general education requirements.

CONTINUING EDUCATION

Innovative Months: Summer Off-Campus Experiences with College Credit

Program Coordinator - Gigi Duthie

Each summer, Fort Lewis College faculty collaborate to design three to five-week Innovative Month programs which focus on in-depth studies and include regional or international travel with immersion in other cultures. These programs offer three to a maximum of six college credits for degree-seeking coursework including business, modern languages, general studies, philosophy, history, economics, and accounting.

Recent courses include a field study of the sociological and economical impact of Hurricane Katrina in New Orleans, study of the business of gaming in Las Vegas, and travel to nations as divergent as Argentina, Bolivia, Peru, Mexico, France, Greece, India, and China, with a focus on the economic, political, and cultural aspects of those countries. These courses are announced during the fall and winter terms for the coming summer, and students may register during that time.

Travel programs are an increasingly important component of a complete education to enhance our growing interactions with world cultures and markets. Whether students are interested in business, education, government, or social service, these opportunities for off-campus study are an integral part of a viable educational program.

For more information regarding Fort Lewis College Continuing Education, visit the Continuing Education website: http://www.fortlewis.edu/community_culture/extended_studies/default.asp

JOHN F. REED HONORS PROGRAM

Course listings for the John F. Reed Honors Program (HON) begin on page 176.

The John F. Reed Honors Program is an academic enrichment program available to a select group of students. Students who participate in the program complete a special curriculum; propose, research, write, and present an Honors thesis; explore their leadership potential; and participate in program-sponsored events with Honors Program students and faculty.

Students who complete the requirements of and expectations of the program will receive a notation on their transcripts that they are John F. Reed Honors Program Scholars and receive special recognition at Honors convocation and graduation.

The John F. Reed Honors Program is overseen by the Honors Council, a group of faculty committed to providing an extraordinary academic experience to the high-achieving students at Fort Lewis College.

Requirements for Admission to John F. Reed Honors Program

Applications for the John F. Reed Honors Program are accepted the first Monday in March and the first Monday in November each year. Admission decisions are announced the first Monday in April and the first Monday in December each year.

To be eligible to apply, students must:

- Complete at least one Hon 220—Honors Forum course.
- Complete at least 15, but no more than 80, credits at Fort Lewis College.
- Have at least a 3.0 cumulative GPA.
- Submit a completed application form, including its three required attachments of unofficial transcript, admission essay, and academic writing sample. Application forms are available at the Division of Enrollment Services and General Education administrative office, Jones Hall 104.
- Request letters of recommendation, addressed to the Honors Program coordinator, from two faculty members. Letters must be received by the application deadline.
- Be interviewed by the Honors Council.

REQUIREMENTS TO GRADUATE AS A JOHN F. REED HONORS PROGRAM SCHOLAR

COURSE REQUIREMENTS

Comp 250	Academic Inquiry & Writing	4
Hon 220/420	Honors Forums	5
Students must complete five forums. At least two of the forums must be taken at the 420 level.		
Hon 499	Honors Thesis	3
Students must complete two credits of Hon 499 in the proposal semester and a minimum of one credit in the presentation semester.		
ED 488	Seminar & Practicum in College Teaching	
	OR	
ED 489	Practicum in College Teaching	3

OTHER REQUIREMENTS

- John F. Reed Honors Program Scholars must propose, submit, and make a public presentation of an Honors thesis in their senior year. John F. Reed Honors Program designation will not be granted without a memorandum from the Program Coordinator to the Registrar indicating that the thesis and its presentation were satisfactory.
- Cumulative GPA of 3.4 or higher
- Honors curriculum GPA of 3.0 or higher

EXPECTATIONS

John F. Reed Honors Program scholars are expected to participate in two Honors Program-sponsored events each semester they are on campus.

HEALTH CAREERS PROGRAM OPTIONS

For Students Interested in Health Careers

Students may pursue courses at Fort Lewis College that lead to a variety of health careers. Most medically related professions either require an undergraduate degree with specific prerequisite courses, or require general prerequisite courses and transfer to a more vocational type of program (i.e., radiology technician).

The most popular pre-professional programs at Fort Lewis College are medicine, nursing, physician assistant, osteopathic medicine, naturopathic medicine, physical therapy, and veterinary medicine, but advising and academic planning are also available for programs in other allied health fields.

Specific pre-professional course requirements vary significantly depending upon the health field chosen. All professional schools, however, prefer those students who have had a broad undergraduate education, have a solid foundation in the natural and social sciences, possess well-developed communication skills, and have had some experience (either volunteer or paid) in the health-related profession of their choice.

PRE-HEALTH ADVISORY COMMITTEE

Fort Lewis College has a group of faculty who are dedicated to guiding and counseling all students in pre-health preparatory programs. The committee has prepared a pre-professional student handbook containing examples of suggested course schedules and curricula. Interested students may access the handbook on the Fort Lewis College website (http://www.fortlewis.edu/academics/programs/health_careers.asp).

In addition to advising students in their preparatory programs, the committee assists students with application procedures and in preparing for professional school admission interviews. The committee will, upon student request, provide recommendation documents to professional schools in accordance with the student's qualifications. This committee is primarily made up of members of the natural sciences faculty in biology and chemistry. Please check with the department chairperson of biology or chemistry for a list of current committee members.

MEDICAL SCHOOL

Most professional programs recognize the importance of foundational knowledge in the natural sciences – biology, chemistry, math, and physics. As such, most have established minimum course requirements in these sciences for admission. However, professional schools require no specific major of their applicants. Admissions committees seek individuals whose intellectual curiosity leads them to be interested in a variety of disciplines, and who have the academic maturity to succeed in a variety of courses, both within the sciences and humanities. You should choose a major that is interesting to you and can be successfully completed, keeping in mind that you will also have to take the specific science requirements for your selected professional school.

You should also consider what will happen if you do not get into medical school or if you change your mind about going. Your major will define your immediate career options; it is important to discuss these possibilities with a pre-health professions advisor.

MEDICAL SCHOOL - PREREQUISITE COURSE WORK AT FORT LEWIS COLLEGE:

Bio 112	Introduction to Organismic and Evolutionary Biology
Bio 113	Introduction to Cell and Molecular Biology (with lab)
Chem 150	Fundamentals of Chemistry I: Atoms and Molecules (with lab)
Chem 151	Fundamentals of Chemistry II: Chemical Reactions (with lab)
Math 110	College Algebra
Math 221	Calculus I (most schools require or recommend math through Calculus I)
Comp 150	Reading and Writing in College
	OR
Comp 126	Writing in College
Phys 201	Physics - Non Calc I (with lab)
Phys 202	Physics - Non Calc II (with lab)
Comp 250	Academic Inquiry and Writing
Chem 250	Organic Chemistry I: Organic Compounds (with lab)
Chem 251	Organic Chemistry II: Biological Chemistry (with lab)

While these are the minimum course requirements, entry into medical school requires that each applicant take the Medical College Admissions Test (MCAT). The scores from this exam and college grades are often combined to select candidates to interview for admission. The MCAT emphasizes knowledge in cell biology; genetics; embryology, microbiology; basic chemistry; human physiology; organic chemistry, biochemistry, and basic physics related to biological systems. These topics may not be covered by taking only the minimum requirements. A pre-health professions advisor in the Biology or Chemistry department can help each student plan to take the courses that will best support the acquisition of knowledge in the areas covered by the MCAT.

NURSING

Nursing programs now focus on training individuals with the end result being a Bachelor of Science in Nursing (BSN). Many BSN programs will admit students with a minimum of 60 credits of prerequisite courses with the assumption that the remaining courses and clinical training will be completed within their program. In addition, most nursing schools also have accelerated BSN programs for individuals who have already completed a bachelor's degree in another field. Thus, a student who completes a degree at Fort Lewis College that includes the prerequisites of the BSN program could be admitted to an accelerated program and obtain a BSN as a second college degree. A pre-health professions advisor can help each student determine which route is best for them in pursuing a nursing degree.

NURSING - PREREQUISITES OFFERED AT FORT LEWIS COLLEGE:

Bio 112	Introduction to Organismic and Evolutionary Biology
Bio 113	Introduction to Cell and Molecular Biology
Chem 150, 151	Fundamentals of Chemistry I and II
Comp 150	Reading and Writing in College
	OR
Comp 126	Writing in College
Math 110	College Algebra
Soc 101	Introduction to Sociology
Psych 157	Introduction to Psychology
Phil 141	Introduction to Philosophy
Math 201	Statistics
Anth 210	Introduction to Sociocultural Anthropology
Bio 233	Human Anatomy (and lab)
Bio 234	Human Physiology (and lab)
Psyc 254	Life Span and Human Development
ES 353	Nutrition for Fitness and Sports
Bio 331	Microbiology

Additional Courses:

Two (2) additional science courses, one with lab (Chem 150 Fundamentals of Chemistry I: Atoms and Molecules, with lab, recommended as one of these courses).

One (1) course in Creative Arts (some suggested courses are Mu 102, Thea 101).

One (1) course in Macroeconomics or History or Political Science (some suggested courses are Econ 364; Hist 160 or 261; PS 101, 110, or 120).

PHYSICIAN ASSISTANT

Physician Assistants (PA) are members of the fastest growing health profession. PAs are academically and clinically prepared to work closely with a supervising physician to provide many of the same services. Most PA programs require you to complete a BA/BS degree before entry into their professional program. A few require several years of experience in the health-care field. Your degree can be in any field in which you will excel. There are several foundational courses in the natural sciences that are required as a part of prerequisite coursework.

Admission to most PA programs requires that applicants take the Graduate Record Exam (GRE). This exam covers verbal, analytical, and writing skills in a variety of disciplinary areas.

PHYSICIAN ASSISTANT – PREREQUISITES OFFERED AT FORT LEWIS COLLEGE:

Bio 112	Introduction to Organismic and Evolutionary Biology
Bio 113	Introduction to Cell and Molecular Biology (with lab)
Chem 150	Fundamentals of Chemistry I: Atoms and Molecules (with lab)
Chem 151	Fundamentals of Chemistry II: Chemical Reactions (with lab)
Math 110	College Algebra (some schools may require math through Calculus)
Comp 150	Reading and Writing in College
	Or
Comp 126	Writing in College
Psych 157	Introduction to Psychology
Bio 260	Genetics (with lab)
Bio 321	General Physiology (with lab)
Math 201	Statistics

Additional Courses:

One (1) additional upper division science (with lab).
One to 2 courses in the humanities (foreign language, fine arts, music, philosophy, etc.); some possible suggested courses include Mu 102, Thea 101, Psych 254, Anth 201, and Anth 357.

Students contemplating admission to Physician Assistant programs should plan to work with a pre-health professions advisor to complete these prerequisites along with their chosen degree requirements.

OTHER HEALTH-RELATED PROFESSIONS

Please contact a member of the Pre-Health Advisory Committee for pre-requisite and other requirements for other health-related professions.

INTERNATIONAL PROGRAMS

Course listings for International Programs (GS) begin on page 172.

Program Director: Susan Holgate

Fort Lewis College offers Exchanges, Direct Enrollments and Study Abroad opportunities around the world to individual student participants through the International Programs Office. GS 250 and GS 251 (International Studies) are pre-departure courses required before participation in any of these programs.

INTERNATIONAL EXCHANGES

Fort Lewis College has a number of reciprocal exchange agreements with partner institutions in Europe, Asia and Latin America. Students participating on these exchanges pay their home school tuition and fees and receive transfer credit for their semesters abroad. Students are responsible for their individual travel and living expenses. Financial aid is available to eligible Fort Lewis College students. Tuition waivers may also be used. Incoming international students from partner schools must apply through their own international programs offices for any financial assistance.

DIRECT ENROLLMENTS AND STUDY ABROAD

Direct enrollments and Study Abroad programs offer alternative locations and curriculum choices to Fort Lewis College students when our current exchange schools do not meet their needs. While participating on these programs, students pay their tuition directly to approved institutions or third party providers.

Faculty-run international programs are offered by individual departments and through the Continuing Education Innovative Month programs.

COURSE DESCRIPTIONS



KEY TO COURSE DESCRIPTIONS

The following pages provide brief descriptions of course offerings open to all students. Course listings are subject to change.

Fort Lewis College does not offer all the classes listed in this catalog every semester or every year. Each semester the College publishes a schedule of courses that provides a detailed list of courses offered and the times and places of instruction. Courses listed in the schedule of courses are subject to change.

EXPLANATORY NOTES

NUMBER OF COURSES:

Course numbering is based on the contents of the material presented in courses.

COURSE NUMBER:

100-299 primarily for freshmen and sophomores
300-499 primarily for juniors and seniors

Entry to all courses is limited to students who have completed published prerequisites or to those with instructor's consent. Courses numbered below 100 do not count toward graduation. Courses numbered below 300 are called lower-division courses, while those 300 or above are known as upper-division courses.

PREREQUISITE. A requirement that must be fulfilled before a student can enroll in a particular course. Consent of the instructor for a student to attend a class is implied when the student has met the specified course prerequisite. NOTE: Some class prerequisites must be completed with at least a grade of C- or better. Please check the current Web catalog for minimum prerequisite grade requirements.

COREQUISITE. A requirement that must be taken concurrently with another course of instruction. If a student withdraws from a course with a corequisite(s), the student must also withdraw from the corequisite course(s).

CANCELLATION OF COURSES. The College reserves the right to cancel under-enrolled courses (courses not selected by an adequate number of students) or for which qualified faculty are not obtainable.

VARIABLE CREDIT COURSES. 1-4 indicates variable credit; the minimum and maximum credit limitation per term are shown. An example:

THEA 100	Theatrical Production I	1-4
This course involves initial participation in theatrical production. It includes involvement in various areas of theatre from inception to presentation. Students with little or no theatre experience will gain a working knowledge of performance. Repeatable for up to 12 credits.		

SYMBOLS

Course descriptions include a variety of symbols that convey essential information. The following standard course description with explanation of symbols is an example.

COMP 250	GCO2	Academic Inquiry and Writing	4
This course guides students through the process of proposing, conducting, and presenting an independent academic research project. (4 0)			
Prerequisites: COMP 150 OR COMP 126			

COMP – department designator

250 – course number

GCO2 – suffix indicates course is approved for Colorado gtPathways General Education. Please see the General Education section of this catalog, pp. 23-27, for a list of approved gtPathways courses.

Academic Inquiry and Writing – Course title

4 – number of credits awarded for successful completion of the course

"This course guides students...." – Explanation of course content, or course description.

(4-0) – (clock hours in lecture per week-clock hours in laboratory experiences per week)

Note: Not all of the above information may be noted in each description.

ACCOUNTING

- ACC 225 **Intro to Financial Accounting** 4
Concepts related to the preparation of financial statements and reports for parties external to the firm, such as stockholders, creditors, and labor unions will be introduced. Understanding the information presented in the financial statements, the balance sheet, the income statement, and the statements of changes in financial position will be the major emphasis of the course. (4-0)
- ACC 226 **Intro to Managerial Accounting** 4
Concepts related to the preparation of reports useful to management in planning and controlling the operations of a business will be introduced. The primary emphasis in this course will be on using accounting information for management planning, control and decision-making. Topics include: behavior of costs, budgeting and planning, cost-volume-profit analyses and analysis of financial statements. (4-0)
Prerequisites: ACC 225
- ACC 323 **Intermediate Accounting I** 4
The fundamental process of accounting is analyzed. The proper treatment of business transactions in the recording and analyzing phases is reviewed. Financial accounting theory and problems are studied along with financial statement presentation. (4-0)
Prerequisites: ACC 226
- ACC 324 **Intermediate Accounting II** 4
Continuation of financial accounting theory and problems. In addition, partnership accounting and an introduction to business combinations are covered. (4-0)
Prerequisites: ACC 323
- ACC 370 **Topics in Accounting** 1-6
An examination of selected topics and issues pertaining to the study of accounting. Topics might include current accounting pronouncements and legislation, accounting software, not-for-profit accounting, fraud auditing, financial statement analysis, SEC reporting or other current topics. Course may be repeated to an accumulated maximum of 6 credits provided the subject is different each time.
Prerequisites: ACC 226
- ACC 426 **Advanced Accounting** 4
A study of topical advanced accounting issues such as business combinations and consolidation accounting, international accounting standards, foreign currency transactions, translation of foreign financial statements and other advanced topics. (4-0)
Prerequisites: ACC 323
- ACC 430 **Income Tax Accounting** 3
A brief history of the income tax, income tax accounting and a study of current federal income tax provisions are presented. (3-0)
Prerequisites: ACC 323
- ACC 431 **Income Tax Accounting II** 3
Federal income taxation of partnerships, corporations, S-corporations, estates and trusts, and gifts. (3-0)
Prerequisites: ACC 430
- ACC 436 **Auditing-Theory and Practice** 4
Functions of the independent public accountant are stressed. The course includes audit reports and options, account analysis, audit programs, working paper content and form, professional ethics, applications of accounting and auditing standards, SEC stock exchange regulations, investigations for purchase and financing and current literature on auditing. (4-0)
Prerequisites: ACC 323

- ACC 470 **Gov 'Not for Profit' Accounting** 3
This course covers accounting standards and principles applicable to local and state governments and other not-for-profit entities. (3-0)
Prerequisites: ACC 323

ADVENTURE EDUCATION

- AE 101 **Foundations of Adventure Ed** 3
An introduction to the professional expectations, responsibilities and global opportunities in adventure education. Topics include the meaning of adventure education, clients and settings, the difference between personal recreation and professional preparation, environmental and social impacts, public land resources, and international trends. A weekend reflection/solo experience is included. Restricted to Adventure Education Majors; students who anticipate declaring a minor in Adventure Education should contact the instructor about waiver of the restriction. (3-0)
- AE 121 **Top Rope Rock Climbing** 2
This course provides an introduction to the skills and safety systems associated with institutional rock climbing for the adventure educator. Topics include management of rock climbing in adventure programs, belaying, rappelling, top-rope anchor building, and stewardship of climbing environments. Restricted to Adventure Education majors; students who anticipate declaring an Adventure Education minor should contact the instructor about waiver of the restriction. (0-4)
- AE 131 **Paddling Fundamentals** 2
An introduction to the skills of flat/moving water canoeing, river rafting and/or tour kayaking for the adventure educator. Includes selection and use of equipment, trip planning, safety and rescue procedures, group management on the water, and stewardship of water environments. Restricted to Adventure Education majors, instructor permission. Students who anticipate declaring an Adventure Education minor should contact the instructor about waiver of the restriction. (0-4)
- AE 141 **Backcountry Skiing** 2
An introduction to telemark skiing for the adventure educator. Includes turning, weighting/unweighting, body position, selection and use of equipment, safety procedures, and stewardship of mountain environments. Restricted to Adventure Education majors; students who anticipate declaring an Adventure Education minor should contact the instructor about waiver of the restriction. (0-4)
- AE 151 **Challenge Course Fundamentals** 2
Introduces students to the use of a variety of low and high challenge course initiatives for instructing others in problem solving, trust, team building, self-confidence, and communication skills. Includes belay and high ropes rescue techniques. Restricted to Adventure Education majors; students who anticipate declaring an Adventure Education minor should contact the instructor about waiver of the restriction. (0-4)
- AE 201 **Wilderness Expedition** 3
Professional practices of extended backcountry travel. Students plan, organize, and participate in a series of three to 14-day mountain, desert and/or river wilderness trips. Topics include Leave No Trace, menu planning, meal preparation, equipment use, campsite selection, expedition technology, map and compass orienteering, route finding, and weather prediction. Students must have proper clothing and equipment for extended backcountry travel. (1-4)
Prerequisites: AE 101

AE 210 **Adventure Leadership** 3
The theory and implementation of adventure leadership, including judgment and decision making, problem solving, risk management in the field, leadership models and styles, self-leadership, situational leadership, feedback, expedition behavior, effective communication, valuing diversity, behavior management, and professional ethics. Students serve as leaders for portions of extended backcountry travel experiences. Students must have proper clothing and equipment for extended backcountry travel. (1-4)
Prerequisites: AE 101

AE 220 **Adventure Instruction** 3
An in-depth study of the models and methods of outdoor and experiential education. Topics include lesson design; creating an engaging learning environment; physical, cognitive and affective methods of lesson delivery; teaching for multiple intelligences; challenge, stress and learning; and assessment of learning. Students will plan, present and give/receive feedback on lessons during extended backpacking expeditions. (1-4)
Prerequisites: AE 101

AE 230 **Wilderness First Responder** 3
This course provides the knowledge needed to handle medical emergencies requiring extended care in remote settings. Emphasis is on prevention, decision making, and treatment. National certification requires this course to meet for approximately 80 hours. Students who successfully complete the course and pass the WFR exam receive a Wilderness First Responder certificate good for three years. (6-0)

AE 310 **Philosophy & Theory of Adv Ed** 3
An exploration of the background, philosophical basis, ethical issues, and theories of adventure and experiential education. This course explains the "Why?" behind the "What?" adventure educators do, and includes an overview of applications to specific client groups (youth-at-risk, chemical dependency, business, school, etc.). Students develop in writing their own personal philosophy of adventure education. (3-0)
Prerequisites: AE 101

AE 321 **Lead Rock Climbing** 3
Advanced outdoor skills course focusing on selection and placement of protection gear, route finding, lead climbing and belaying, multiple pitch climbing, advanced anchor building, rescue systems, and climbing instructional strategies. (0-6)
Prerequisites: AE 121 AND AE 201

AE 325 **Mountaineering** 3
Knowledge, skills, and attitudes of basic mountaineering, including snow, ice, and alpine climbing, avalanche awareness, use of technical equipment including crampons, ropes, and ice axes for snow and glacier travel, use of fixed lines, group management on technical terrain, crevasse rescue, and mountaineering instructional strategies. (0-6)
Prerequisites: AE 121 AND AE 201

AE 331 **Advanced Paddling** 3
Techniques and procedures to conduct canoeing, rafting, and/or kayaking in moving and whitewater environments. Includes basic rescue techniques, more advanced paddling techniques, and paddling instructional strategies. (0-6)
Prerequisites: AE 131 AND AE 201

AE 341 **Winter Backcountry Travel** 3
Equipment, techniques, and instructional strategies for travel and camping in winter conditions on snowshoes and backcountry skis. Includes extended cold weather survival methods, building snow shelters, winter expedition camping, trip planning, and winter travel instructional strategies. (0-6)
Prerequisites: AE 141 AND AE 201

AE 350 **Adven Processing Facilitation** 3
This course provides the skills necessary for facilitating a variety of client groups in indoor and outdoor experiential and adventure programs. Includes group development stages, group discussion leading, active listening, debriefing, frontloading, metaphors, and transfer of client learning. Students will develop and facilitate a program with a client group. (3-0)
Prerequisites: AE 101

AE 360 **Special Topics Ad Ed: Skills** 3
Each year this course focuses on a different advanced skill and/or environment. Skills may include wilderness search and rescue, sea kayaking and other skills. This course may involve traveling to a distant location, such as Baja, Mexico, or other regional or international environments. Repeatable provided the subject is different. (0-6)
Prerequisites: AE 201

AE 361 **Spec Topics Ad Ed: Profession** 3
Each year this course focuses on a different adventure topic. Topics may include multi-cultural and international adventure pursuits, corporate adventure training, therapeutic adventure, eco-psychology in outdoor adventure, and other topics. Repeatable provided the subject is different. (3-0)
Prerequisites: AE 201

AE 380 **Adventure Ed Practicum** 1-6
Students who have demonstrated a high level of proficiency serve as assistant instructors in Adventure Education courses, with FLC Outdoor Pursuits trips, or with other programs and populations. Students take active leadership roles, prepare and teach adventure topics and skills, implement professional standards, and receive supervision and feedback on their performance. Each credit represents 50 hours of practicum experience. Instructor permission required.
Prerequisites: AE 220

AE 450 **Org & Admin of Adventure Ed** 3
This is a capstone course in which students synthesize their experience in adventure leadership, instruction, and programming to explore the details of managing an adventure program. Topics include program accreditation standards; risk management; staff recruitment, hiring, and training; and program marketing. (3-0)
Prerequisites: AE 310 AND AE 350

AE 480 **Adventure Ed Internship** 6-12
Students serve with an approved program/organization to gain a variety of on-the-job professional experience and apply theories and practices learned in adventure education courses. Each internship credit represents 50 hours of internship experience, so students should plan for a minimum of 7 weeks of full-time experience. Internship sites are nationwide; some may include housing and/or a small stipend. Instructor permission required.
Prerequisites: AE 310

AGRICULTURE

AG 101 GSC1 **Introductory Animal Science** 4
Basic introduction to the aspects of animal science, concentrating on products, reproduction, genetics, anatomy, basic production in cattle, sheep, swine and dairy. (3-3)

AG 102 **Principles of Crop Production** 3
Basic principles of crop production, concentrating on growth, development, management, utilization and cultural practices dealing mainly with the crops of Colorado. (3-0)

AG 150 **Farm Records and Accounts** 3
This course is designed to give proficiency in keeping farm records for income tax and management purposes. (3-0)

AG 180	GSC2	Sustainable Agriculture	3
This course will introduce students to the theoretical and practical dimensions of sustainable agriculture. The major topics of discussion will include current issues in sustainable agriculture, sustaining soil fertility, environmentally friendly pest control, and case studies in sustainable agriculture. (3-0)			
AG 202		Weed Management / IPM	3
Principles and practices of weed control and insect pest management. The recognition of important weed and insect pests. (3-0)			
AG 203	GSC2	Intro to Medicinal Crops	3
An introduction to the topic of medicinal crops. A study of selected medicinal crops with regard to their production, medical usage and scientific basis for reported benefits. (3-0)			
AG 204		Forage Production & Mngmt	3
Principles and practices of forage production and management in the United States. (3-0)			
AG 235		Soils and Soil Fertility	4
A basic course dealing with soil formation, physical and chemical properties, fertility, management and conservation. (3-4)			
AG 240		Principles of Animal Nutrition	4
Digestive anatomy nutrient sources and requirements of livestock, including ration-balancing and analysis of feedstuffs. (3-3) Prerequisites: AG 101			
AG 299		Individual Study	1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the department chairperson and dean. 50 contact hours are the equivalent of one credit hour.			
AG 301		Range Management	4
Application of range science principles in managing rangelands. Major topics include ecology, grazing systems, management principles, range improvements, and range utilization. (3-3)			
AG 325		Beef Science	3
A comprehensive course in beef cattle production, including topics in breeding and selection, reproduction, nutrition, herd health and marketing. Commercial beef cattle production enterprises will be emphasized. (3-0) Prerequisites: AG 101			
AG 346		Agricultural Marketing	3
An introduction to applied grain, livestock, and agricultural product marketing in the U.S. Basic marketing principles and practical marketing strategies using the futures market will be discussed. (3-0)			
AG 370		Internship in Agriculture	3
Directed work experience in agricultural production and agribusiness. Minimum requirements are that students maintain a detailed journal and complete at least 80 hours of directed experience. Sophomore standing and minimum 2.5 cumulative GPA required.			
AG 499		Independent Study	1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the department chairperson and dean. 50 contact hours are the equivalent of one credit hour.			

ANTHROPOLOGY

ANTH 120		Culture, Heritage and Identity	3
This course explores how communities understand and preserve their heritage, whether it be through historical documents, ethnographic descriptions, archaeology, or oral history, and how these ways of understanding heritage are used to maintain identity and cultural values. (3-0)			
ANTH 151	GSS3	Introduction to Anthropology	3
A comprehensive, systems-oriented study of general anthropology covering the four major subfields (archaeology, biological anthropology, linguistic anthropology and ethnology). This course is recommended as a beginning course for students who have had no previous background in anthropology. (3-0)			
ANTH 171		World Archaeology	4
An introduction to cultures of the past. Students study the fundamental role that technology, as evidenced in the archaeological record, has played in the evolution of humans, from the earliest hominids to the rise of states in the Old and New Worlds. The interconnection between technology and society is emphasized, as is the scientific method and its historical and cultural contexts. (4-0)			
ANTH 201	GSS3	Introduction to Archaeology	4
This course is designed to introduce the beginning student to the basic techniques, concepts and theories of archaeology and its relation to the wider field of anthropology. (4-0)			
ANTH 208		Traditional Ecological Knowl & Cult Surv	4
Traditional Ecological Knowledge (TEK) is an integrated body of spiritual and practical knowledge that has evolved over vast stretches of time through the successful adaptation of a culture to its local environment. In this course, students will be introduced to the ways in which different cultures organize and categorize domains of TEK, including plants, animals, landscapes and kin. The class will also address the growing question of cultural survival in relation to environmental loss, as it is increasingly apparent that cultural diversity is directly related to biological diversity. (4-0)			
ANTH 210	GSS3	Intro Sociocultural Anthropology	4
Sociocultural anthropology deals with the relationship of culture to society and the individual. This course is designed for the beginning student and introduces the basic concepts, theories and methods of this broad field. It also looks at the application of ethnological thought in considering modern human realities and problems and in understanding the relationship of cultural and expressive forms to identity. (4-0)			
ANTH 212		Applied Anthropology	4
Applied and practicing anthropologists directly serve the needs and interests of communities and organizations around the world. This course provides an introduction to the ways in which anthropology and anthropologists work toward finding solutions to real world problems. A case study approach provides the student with methods for seeing how social and environmental problems are defined, solutions generated, and outcomes evaluated. (4-0)			
ANTH 215	GSS3	Magic and Religion	3
This course provides an inquiry into the forms that spiritual and religious beliefs take cross-culturally and investigates the various practices and symbols through which these beliefs are expressed and enacted in public life. (3-0)			

- ANTH 217 GSS3 **Cultural Images of Women & Men** 4
This course examines the images of gender and sexuality that permeate our society and contribute to the definition and delimitation of identity and autonomy. Special attention is given to examining social hierarchies that underlie and are modified by the discourse involving male and female behavioral expectations. Any and all cultural products will be our objects of inquiry and analysis, from film and advertising to autobiographies and other self-portraits. Our goal is to arrive at a coherent understanding of the relationship of images to social power, equality and inequality. (4-0)
- ANTH 220 **Colorado Archaeology** 3
This course covers the prehistoric and historic archaeology of Colorado. It examines the historical development of archaeology in our state, our current state of knowledge and how Colorado archaeology has developed in relation to the wider goals of archaeology. (3-0)
- ANTH 236 GSC1 **Intro Biological Anthropology** 4
This course provides a study of the biological development of humankind and the modern understanding of human variation from a technological, critical, ethical and evolutionary perspective. Topics to be explored in the classroom and laboratory contexts include the biological basis of the race concept, the workings of Mendelian genetics, forensic anthropology and the basics of primate evolution. (3-3)
- ANTH 243 **Food: Systems of Production** 4
This course explores the centrality of food systems in local and global contexts. It examines the interrelated historic, economic, political and gendered features of food production, distribution and consumption via cross-cultural comparison. Special attention is paid to the dialectic of material and symbolic elements where our goal is to understand the place of food in systems of power that include familial, cultural, industrial and institutional forms. (4-0)
- ANTH 246 **Human Biological Variation** 3
In this course, students learn about human biological variation and adaptation within an evolutionary framework. The genetic basis for human variation, the concept of race, examples of physiological and behavioral adaptation to environmental variables, and current issues in human biodiversity will be addressed. Health and disease of human populations will be considered using a biocultural perspective. (3-0)
- ANTH 259 **Field Training in Archaeology** 4-8
Actual on-site training in the techniques of archaeological survey and excavation. Students spend full days, five days a week, in the field for seven weeks. They receive intensive instruction in field survey, remote sensing and all aspects of excavation, recording, mapping, photography, artifact classification, field laboratory techniques and site interpretation. A written description of the field school for each year will be furnished to prospective students.
- ANTH 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- ANTH 302 **Research in Human Origins** 3
This course includes an in-depth study of human evolution. This class will address the biological basis for evolution, the history of fossil discoveries within a social context, and the most current genetic, fossil and cultural evidence for hominid evolution. Students explore the current issues and controversies in the field of paleoanthropology. (3-0)
Prerequisites: ANTH 236
- ANTH 303 **Anthropological Debates** 4
This course is organized around a controversial theme and debate within the discipline. The student will enter into this debate by reading, writing and speaking. Course debate themes will alternate from semester to semester. Examples of course themes include the "race" concept, indigenous rights, ethics, repatriation, archaeological theory and food and nutrition, among others. (4-0)
Prerequisites: (COMP 150 OR COMP 126 OR COMP 250) AND (ANTH 210 OR ANTH 201)
- ANTH 310 **Geoarchaeology** 4
This course offers an interdisciplinary approach to the study of archaeology. The conceptual foundations and historical relationships between archaeology and the geosciences are explored. The major focus of this course is on the methods and techniques borrowed from the geosciences (geology, geography, geomorphology) that relate to the reconstruction of the archaeological landscape. (4-0)
- ANTH 313 **Arch of Ancient Greece & Rome** 4
This course examines the past of Greece and Rome from the Bronze Age to the end of the Classical and Imperial periods, drawing on both archaeology and other relevant disciplines. The course situates the development of classical archaeology in its historical and socio-political context and addresses some current issues of relevance to both classical archaeology and archaeology in general. This course counts toward the research and non-New World requirements in the major. (4-0)
- ANTH 314 **Greece: Culture, Archaeology** 4
This off-campus course introduces students to the rich culture, archaeology and history of Greece through an intensive study of some of the major archaeological, historical and cultural sites and locations in Greece and the Aegean Islands. Students will be expected to participate in all activities and also conduct independent research on topics of their choice. This course requires that the class travel to Greece and the Greek islands and therefore requires additional fees.
- ANTH 316 **Internship in Anthropology** 1-6
This course offers a guided framework for practical experience for work carried out by students in discipline-related governmental and non-governmental agency projects. Interns will be involved in effective public service in order to promote student understanding of complex social, political, economic, scientific and philosophical issues. Internship examples include, but are not limited to, work in archaeological, museum and public health contexts. Course credit is based on 1) satisfactory performance of 30 hours of work for each credit earned; 2) fulfillment of a learning contract with a faculty sponsor; and 3) the satisfactory completion of a final project, usually a paper.
- ANTH 320 **Archaeological Lab Techniques** 4
This lecture course covers laboratory techniques and the analysis of prehistoric artifacts, with special emphasis on lithic, ceramic and bone technologies. This course also introduces the student to the preparation of technical reports. (4-0)
Prerequisites: ANTH 201
- ANTH 330 **Prehistory of the Southwest** 4
This course provides a comprehensive survey of the major cultural traditions of the prehistoric Southwestern United States, including the environmental and social factors that contributed to their distinctiveness. (4-0)
- ANTH 340 **Ancient Egypt** 3
Using archaeological data, this course examines the development of a major civilization and its relationship to both the earlier civilizations of Mesopotamia and the later developing civilizations of the Mediterranean. (3-0)

- ANTH 341 **Prehistory of Europe** 4
This course provides a survey of early cultures of Europe from the earliest evidence of humans until the development of civilizations. (4-0)
- ANTH 348 **Prehistory of the Americas** 4
The primary focus of this course is the development of the indigenous cultures of North America, with a secondary emphasis on the influences of the societies of Central and South America. Emphasis is also placed on evaluating the degree to which our understanding of the past is influenced by both the discipline of anthropology and by contemporary Western values. (4-0)
- ANTH 350 **Ethnology of Mesoamerica** 4
This course provides a comparative study of major cultural topics concerning contemporary ethnic groups of central Mexico and northern Central America. Geography, demography, ecology and prehistory will be touched upon, while social, economic and political systems will be studied in more depth. (4-0)
- ANTH 351 **Ethnology of Andean So America** 4
Indigenous peoples and peoples of mixed descent are studied in terms of their past and present cultural and political-economic experiences. Particular emphasis is given to understanding the ways the North American and Andean worlds intersect, as well as to the ways that Andean studies reflect and influence trends in anthropological thought. (4-0)
- ANTH 355 **Anthropology of Gender** 4
This course offers an in-depth, interdisciplinary analysis of the nature and origin of gender concepts cross-culturally, particularly as they relate to explaining gender hierarchy. Topics to be covered include the contributions of feminist thought to social scientific theories, the cultural construction of gender categories and the relationship of gender to power. This course is the same as WS 355; credit will be given for only one of these courses. (4-0)
- ANTH 356 **Ecological Anthropology** 4
This course provides a comparative study of human populations in ecosystems, stressing the relationship between culture and the biophysical environment with the focus on cultural adaptations. Implications for anthropological theory, sociocultural evolution and contemporary problems will be investigated. (4-0)
- ANTH 357 **Medical Anthropology** 4
The medical systems of indigenous peoples are analyzed cross-culturally from the perspectives of epidemiology, symbolism, history and a political economy. Topics will include the development of medical anthropology, the medical traditions of Ayurvedic, humoral, shamanic and biomedical practitioners, theories of cause and cure and applied practice. This course is recommended for pre-health and social science majors. (4-0)
- ANTH 359 **Forensic Osteo & Bioarchaeology** 4
A detailed study of the human skeleton provides the basis for learning techniques used in forensic anthropology and bioarchaeology. Age at death, sex, ancestry, stature, taphonomy and pathology are explored through lecture and hands-on activities. Specific applications of these techniques to forensic and archaeological contexts are presented, including forensic cases, mass disasters, human rights issues, repatriation, paleodemography and paleopathology. (3-2)
Prerequisites: ANTH 236
- ANTH 360 **Legal/Ethical Issues in Anth** 4
This course examines in depth the current ethical issues confronting anthropologists and those whose heritage they study. The legal foundations of these issues are studied in detail to prepare students for an understanding of the tenets of heritage resource management and conservation and the manner in which these fields relate to interpreting the cultural identity of traditional societies. (4-0)
- ANTH 365 **Language and Culture** 4
This course introduces students to the relationship between language and culture. Attention will be paid to a diversity of human communicative behavior, both spoken and unspoken, with a focus upon aspects of communication as the structural properties of language, cross-cultural variations in language use, the contextualization of meaning, and how language is affected by such variables as gender identity and group affiliation. (4-0)
- ANTH 370 **Research Methods in Anthro** 4
This course will examine the use of quantitative methods in anthropological research, through the application of traditional statistical techniques, exploratory data analysis, and GIS. Students will be introduced to various archaeological and ethnographic examples using the tools of SPSS statistical software, GIS, and ArcView. (4-0)
Prerequisites: ANTH 201 AND ANTH 210 AND (MATH 110 OR MATH 201 OR PSYC 241 OR BA 253 OR ES 242)
- ANTH 371 **Ethnology of Amazonian S Amer** 3
Selected societies of the Amazon region are studied in this comparative survey, which opens with consideration of the ways that the region and its peoples have played a large role in European expansion. The major focus of the course is on the relationship of Amazonian peoples to their ecosystem and the ways they continue to struggle to achieve autonomy over their threatened territories and ways of life. (3-0)
- ANTH 388 **Ethnology of the Southwest** 4
This course provides a comparative overview of selected American Indian cultures of the American Southwest in terms of their history, social organization, belief systems, oral traditions, political economy and responses to change as they intersect with non-Indian peoples. (4-0)
- ANTH 395 **Hist Anthropological Thought** 4
This course provides a genealogical and critical look at the major philosophical, historical and scientific elements that have contributed to anthropological thought and practice--both archaeological and ethnological--since the early 19th century. Although this course is specifically required for the anthropology major, it is recommended for any student interested in the development of social scientific thought and the ways it plays out in students' own intellectual autobiographies. (4-0)
Prerequisites: ANTH 201 AND ANTH 210
- ANTH 402 **Adv Archaeological Lab Techniq** 4
This lecture course covers advanced laboratory techniques and the analysis of prehistoric artifacts, with special emphasis on lithic, ceramic and bone technologies. The course also further develops the student's ability in the preparation of technical reports. (4-0)
Prerequisites: ANTH 201 AND ANTH 320
- ANTH 403 **Adv Archaeological Field Tech** 4-8
This course provides advanced training in the techniques of archaeological survey and excavation. Students spend full days, five days a week, in the field for a total of seven weeks. In addition to intensive instruction in all aspects of field survey and excavation, training includes research design preparation, hypothesis generation, field test propositions and excavation sampling design. Students may serve as crew chiefs and direct field laboratory sessions. A written description of the field school for each year will be furnished to prospective students.
Prerequisites: ANTH 259
- ANTH 406 **Ethnobotany of Southwest** 4
This class offers students the opportunity to conduct in-depth research regarding traditional plant knowledge unique to the various cultures of the Greater Southwest and to become familiar with the important and useful plants of the region. (4-0)
Prerequisites: COMP 150 OR COMP 250 OR COMP 126

ANTH 412 Advanced Topics in Applied Ant 4
Students will work on an applied community project. The course will emphasize first-hand experience in research design, rapid social impact assessment, ethics, advocacy, interviewing and community-based participatory methods. Theoretical and methodological readings will ground the experiential portion of the course. May be repeated once for an additional 4 credits. (4-0)
Prerequisites: ANTH 210 AND ANTH 212

ANTH 430 Adv Studies, SW Archaeology 4-6
This course provides detailed study and research on current topics in the archaeology of the Southwestern United States, with special emphasis on the theoretical and empirical contributions of major archaeologists and archaeological projects. Individual projects will focus on current topics in archaeology. (4-0)
Prerequisites: ANTH 330

ANTH 450 Adv Research-Latin Amer Anth 3
Students work on a focused research project that requires previous knowledge about Latin American sociocultural systems. Class discussions center around research methods, possible applications, and ethical implications of working in Latin America. Guidance is provided to those students who wish to formulate a Fulbright or other post-B.A. grant proposal. Instructor permission required. (3-0)

ANTH 455 Adv Research in Anth of Gender 3
Students conduct a focused research project that requires familiarity with gender-based theory as well as feminist discourse, methods, and practice. Guidance is provided to students who wish to formulate their research into a Fulbright or other post-B.A. grant proposal. Instructor permission required. (3-0)

ANTH 496 Senior Capstone Sem in Anthro 4
This course provides a context for advanced reading, writing and seminar discussion centered on integrating the undergraduate anthropological focus in the student's life beyond college. As a capstone course, the Senior Seminar provides a rich opportunity to reflect upon and synthesize, through various written and oral projects, the many dimensions of the anthropological intellectual experience. (4-0)
Prerequisites: ANTH 303 AND ANTH 395

ANTH 499 Independent Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour. This course may not be used to meet major requirements in lieu of an existing course offered by the department.

ART

ART 101 Drawing 4
Introduces students to the fundamentals of drawing. Includes traditional representational and imaginative drawing problems, perspective, spatial illusion and composition. (1-6)

ART 109 Visual Foundations I 3
Introduces two-dimensional design principles and the study of color theory. Critical thinking and conceptual problems are explored. (1-4)

ART 110 Visual Foundations II 3
Introduces three-dimensional design principles and the study of color theory. In addition, interdisciplinary arts and time-design problems are explored. (1-4)

ART 201 Figure Drawing 3
A studio experience designed to allow an in-depth study of the human figure in drawing. Live models will be used extensively. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 205 Experimental Drawing 3
A studio course designed to link the development of drawing skills to expressive and conceptual content via a variety of experimental approaches to drawing. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 210 Introduction to Digital Media 3
An introduction to industry-standard applications used for type and image manipulation and layout. Art major status must be declared for enrollment. (0-6)
Prerequisites: ART 101 AND (ART 109 OR ART 110)

ART 213 Sculpture 3
This course introduces the tools, materials, terminology and ideas of sculpture. Three-dimensional design principles will be employed in the execution of studio projects. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 220 Graphic Design 3
Introduction to the practice of graphic design. Areas of investigation include manipulation of form in two dimensional space, type and image handling, layout techniques, computer applications, visualization and creative problem solving. Students will create a series of design solutions that express growing proficiency and knowledge in graphic design. This course is repeatable once for an additional three credits. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110 AND ART 210

ART 224 Painting 3
This course is designed to teach students the basic skills, techniques, and materials related to various painting media. Students will learn to be inventive through observation and experimentation. Emphasis is given to observational exercises with an introduction to conceptual concerns. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 243 Photography 3
This course will explore traditional, digital, and experimental photography. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 250 Ceramics 3
This course will introduce and develop the technical skills and knowledge of ceramic materials and processes including hand building, throwing, surfacing, and firing. The student will conduct a fundamental investigation into the tools, techniques, materials, terminology, and ideas of historic and contemporary ceramics. (0-6)
Prerequisites: ART 101 AND ART 109 AND ART 110

ART 261 Design History and Typography 4
This course introduces the history and mechanics of typographic form as it relates to graphic design and the creation of graphic elements and layouts. Topics include the evolution of letterforms and written communication, type anatomy, measurements, composition, identification, and terminology. Technical, creative and expressive type handling will be explored through lecture, studio, research, and homework assignments. (3-2)
Prerequisites: ART 210

ART 262 GAH1 Art Hist I: Ancient World/Mid Ag 4
This course is a broad introduction to painting, sculpture and architecture in both the Western and Non-Western traditions from the prehistoric era up to the end of the Medieval period. As such, art works will be considered in their stylistic, cultural and historical contexts. (4-0)

ART 263 GAH1 Art Hist II: Renaissance-Mod World 4
This course is a broad introduction to painting, sculpture and architecture in both the Western and non-Western traditions from the early Renaissance to the present. As such, art works will be considered in their stylistic, cultural and historical contexts. (4-0)

- ART 265 Art History of the Southwest 3**
A comprehensive study of the art forms developed in the Southwest, starting with Mesoamerica and ending with contemporary Southwest artists. The course emphasizes the cultural impact upon design transitions as it traces contemporary designs to their roots. The course is the same as SW 265; credit will be given for only one of these courses. (3-0)
- ART 271 Art Institutions 4**
This course combines lecture, discussion, student research and writing to help students develop an understanding of the significant institutions and systems that make up the art world, such as museums, corporate collections, public and private patronage, sales galleries, auction houses, art publications and art schools and programs. (4-0)
- ART 288 Community-Based Projects 1-6**
This course provides the opportunity to work on a variety of projects that could include internships, community involvement, collaborative and/or installation projects, and travel-based programs. Students will be supervised by a full-time faculty member. Instructor permission required.
- ART 292 Independent Media/Research 1-6**
In this course students have the opportunity to work independently on a self-directed studio or research-based project. Students may work with any full-time member of the art department, but must have that faculty member's permission. This course may be repeated one time.
Prerequisites: ART 101 AND ART 109 AND ART 110
- ART 296 Sophomore Seminar 2**
Art majors must take Sophomore Seminar after the completion of 17 art credits. This course addresses career planning, safety with art materials, and portfolio presentation. In addition, this course assists students in developing an understanding of significant arts institutions and systems. A portfolio presentation and review is required. (2-0)
- ART 299 Individual Study 1-6**
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.
- ART 301 Advanced Drawing 3**
An advanced-level drawing class that builds upon skills acquired in previous drawing classes. A conceptually-based approach to drawing will be emphasized and a wide variety of media and materials will be considered. (0-6)
Prerequisites: (ART 201 OR ART 205) AND ART 296
- ART 313 Intermediate Sculpture 3**
This course will continue the development and understanding of three-dimensional media and related concepts. The student will utilize an investigative process while developing finished studio projects. (0-6)
Prerequisites: ART 296
- ART 315 Gallery Management Internship 2-4**
This course/internship is designed to introduce students who have a strong interest in and commitment to art to the fundamentals of gallery management. Students will gain an understanding of gallery management through course activities which include assigned readings, seminars and practical, hands-on experience. Students will study how social, political, historical and institutional dimensions shape exhibitions and reflect or challenge societal perceptions. In addition, students will learn about the complexities of directing and managing the daily operation of an ambitious exhibition schedule. Student experiences will be varied to include facets of gallery organization from public relations and publicity to installing an exhibition with emphasis on design and installation. Consent of instructor required.
- ART 320 Intermediate Graphic Design 3**
This course features intermediate-level graphic design, communication, problem solving and conceptualizing activities. Students research contemporary design projects, work collaboratively, and finalize comprehensive designs that demonstrate proficiency in design principles and creative thinking. (0-6)
Prerequisites: ART 220 AND ART 296
- ART 322 Interactive Web Design 3**
Students explore web authoring and interactive digital media based on principles of design and effective visual communication. Cultural, ethical, and legal implications of digital interface design will be discussed. (0-6)
Prerequisites: ART 210 AND ART 296
- ART 324 Intermediate Painting 3**
Students will continue to develop their technical knowledge and skills related to various painting media. The course will be concerned with technique, formal problems, and the discovery and selection of meaningful subject matter. (0-6)
Prerequisites: ART 224 AND ART 296
- ART 331 Printmaking Topics 3**
A studio-based exploration of one or more of the traditional printmaking techniques: relief, intaglio, silkscreen, and lithography. Alternative printing processes may also be considered. Course content will vary; specific topic to be announced by instructor. May be repeated once for an additional 3 credits provided topic is different on each occasion. (0-6)
Prerequisites: ART 296
- ART 335 Crafts: Topics 3**
This course explores a wide range of craft techniques, as well as contemporary craft theory and history. This course views craft through a multicultural lens, exploring the relationship between cultures, techniques and aesthetics. Course content will vary; specific topic to be announced by instructor. Repeatable once for an additional 3 credits provided it is a different topic. (0-6)
Prerequisites: ART 296
- ART 350 Intermediate Ceramics 3**
This course is a continued exploration of the materials and processes in ceramics. Students will refine the skills learned in Art 250 while acquiring additional knowledge and deepening conceptual exploration. (0-6)
Prerequisites: ART 250 AND ART 296
- ART 363 Modern Art History 1863-1945 4**
This course is the first half of a two-term survey of the history of modern art, covering the major artistic movements and artists in Europe and the United States from the late 19th century, about 1863, to the second World War, about 1945. While the emphasis will be on painting and sculpture, architecture and photography will also be considered. (4-0)
- ART 364 Modern Art History 1945-Present 4**
This course is the second half of a two-term survey of the history of modern art, covering the major artistic movements and artists in Europe and the United States from the second World War, about 1945, to the present. While the emphasis will be on painting and sculpture, architecture, photography and other new media will also be considered. (4-0)
- ART 365 Mesoamerican Art History 3**
Mesoamerican Art History is an overview of the prehistoric civilizations of Mesoamerica. It examines, in detail, culture, art and architecture of the area, including Maya, Olmec, Mixtec, Zapotec, Huastec, Colima and Aztec. This course is the same as SW 360; credit will be given for only one of these courses. (3-0)

ART 366 **Women, Art and Visual Culture** 4
This course provides an overview of contemporary art theory, representations of women and the feminist critique of art. Students will read, research and write about art and discuss the idea of "visual culture." This course is the same as WS 366; credit will be given for only one of these courses. (4-0)

ART 367 **Amer Art Hist: Col Era to 1930s** 3
This course surveys the major issues and developments in American painting, graphic arts, photography and sculpture from the early Colonial period to the 1930s. The aim is to provide a functional knowledge of schools, styles and individuals within their historical and cultural contexts as well as introduce important critical issues surrounding the subject of American art in general. (3-0)

ART 368 **Native N. American Art History** 3
Using a regional approach, this course examines art by Native Americans from Alaska, the Northwest Coast of North America, Plains, Woodlands, California, Northeast, Southeast and Southwest regions of the United States. The influence of tourism, photography, and museums on art, as well as Native American influence on these forces is also examined. Art surveyed ranges from the archaic to the contemporary. This course is the same as SW 368; credit will be given for only one of these courses. (3-0)

ART 370 **Art History: Topics** 4
This course offers in-depth exploration of topics in the history of art. Course content will vary. Specific topic to be announced by instructor. Students may repeat course twice for credit, provided the subject is different on each occasion. (4-0)
Prerequisites: ART 262 OR ART 263

ART 373 **Art Media/Methods for Teachers** 4
Contemporary concepts, practices, materials and methods used in the K-12 school art program. (2-4)
Prerequisites: ART 296

ART 385 **Contemp. Art: Process, Theory, Crit** 4
This course will engage students in the contemporary dialogue about art. Reading, class discussion and writing will focus on contemporary art process, theory and criticism. Students must have junior standing. (4-0)
Prerequisites: ART 262 AND ART 263 AND ART 296

ART 413 **Advanced Sculpture** 3
This course provides an advanced exploration of three dimensional media and related concepts. The student will utilize an investigative process while developing finished studio projects. This may be repeated once for an additional 3 credits. (0-6)
Prerequisites: ART 313

ART 420 **Advanced Graphic Design** 3
Advanced study, directed research and critical analysis in graphic design. Students will apply their knowledge of design principles, type and image handling, and computer applications to further develop their own creative process. Emphasis is placed on refining strategy, research, concept, design and technical proficiency. Repeatable once for three additional credits. (0-6)
Prerequisites: ART 320 AND ART 322

ART 424 **Advanced Painting** 3
Advanced study and directed research in various painting media. Students will concentrate on formal problems while working with their choice of subject matter. Repeatable once for an additional three credits. (0-6)
Prerequisites: ART 324

ART 450 **Advanced Ceramics** 3
This course is a continued exploration of the materials and processes in ceramics. Students will refine the skills learned in Art 350 while acquiring additional knowledge and deepening conceptual exploration. May be repeated for an additional 3 credits. (0-6)
Prerequisites: ART 350

ART 488 **Community-Based Projects** 1-6
This course provides the opportunity to work on a variety of projects that could include internships, community involvement, collaborative and/or installation projects, and travel-based programs. Students will be supervised by a full-time faculty member. Instructor permission required.

ART 492 **Independent Media/Research** 1-6
In this course students have the opportunity to work independently on a self-directed studio or research-based project. Students may work with any full-time member of the art department, but must have that faculty member's permission. This course may be repeated one time.
Prerequisites: ART 296

ART 496 **Senior Seminar** 3
This course provides the graduating art student with a culminating experience, manifest as a group exhibition of mature work. Additionally, students are required to produce a portfolio that includes artwork documentation. Supplementary exercises and activities are designed to aid in the transition from academic setting to "real life" artistic endeavors. Senior standing required. (3-0)
Prerequisites: ART 296

ART 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

BUSINESS ADMINISTRATION

BA 103 GSS1 **The US Business System** 3
This course introduces students to US enterprise and commerce. It focuses on the influence of society, politics, economics and technology in shaping the business system. The course initiates a process of critical thinking; students not only comprehend specific knowledge of business terms and concepts, but apply it to typical business problems and cases. Students also practice communicating clearly in writing. (3-0)

BA 205 **New Business Venturing** 3
This course introduces students to starting and operating a business. At the macro level, students are exposed to how business interacts with government, financial institutions and society. At the micro level, students are exposed to customer psychology, basic economics, data analysis and interpretation. Individual research and writing a business plan are required. Other topics covered include franchising, home-based businesses and e-commerce. (3-0)

BA 240 **Business Creativity & Innovation** 2
The business person's secret for creating value in the market place is applying creativity and innovation to solve problems and to make use of opportunities that people face every day. Course objectives are to (1) develop skills in generating new and original ideas, (2) increase ability to move ideas into action and success, and (3) increase knowledge and skill in creative problem solving as applied to business settings. The course is a "hands-on" experiential format where students learn through "doing" the concepts. (2-0)

- BA 253 GMA1 **Business Statistics** 4
An introductory course covering the collection and analysis of numerical data for decision-making purposes. Topics to be covered include descriptive statistics, measures of central tendency and dispersion, probability, sampling distributions, estimation, hypothesis testing and regression and correlation. This course is the same as Math 201; credit will be given for only one of these courses. (4-0)
Prerequisites: (MATH 110 OR MATH 121 OR MATH 210 OR MATH 221) OR Computed Math Placement MA121 AND sophomore standing.
- BA 255 **Statistical Infer Computer App** 1
This course is designed as a follow-up to a three-hour basic statistics course from another school. The course, coupled with a three-hour basic statistics course, will meet the requirements of BA 253-Business Statistics. Course content includes topics in hypothesis testing and regression as well as application of computer programs to statistical inference. This course may not be taken for credit by students who have received credit for BA 253. (1-0)
- BA 260 **Legal Environment of Business** 3
An examination of the primary lawmaking and adjudicatory processes with a substantial emphasis upon the role that economic, social, political and ethical forces play upon the shaping of domestic and international legal rules. (3-0)
Prerequisites: (COMP 150 OR COMP 126 OR COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250), and sophomore standing.
- BA 271 GSS1 **Principles of Int'l Business** 3
An introductory course addressing physical and human characteristics and interactions that shape the nature of international business relationships and movement of resources across geographical and cultural boundaries. Trade patterns are examined in light of the world's present cultural patterns, which are a reflection of the major human accomplishments of the past. (3-0)
- BA 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.
- BA 301 **Managmnt & Organizatnl Behavior** 4
A study of the principles, practices and processes of administration: the organization of a system, the behavior of people in the organization and the development of organizational effectiveness. Both domestic and international aspects of management theory and practice will be considered. (4-0)
Prerequisites: (BA 103 OR ACC 225) AND (ECON 262 OR ECON 272), and junior standing.
- BA 302 **Human Resource Management** 4
Human resource system makeup within an organization. Topics include, but are not limited to, recruitment and selection, training and development, performance appraisal, wage and salary administration, discipline, labor relations, union management relations and the role of government in human resource administration. (4-0)
Prerequisites: BA 301 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)
- BA 308 **Office Management** 3
The principles of office management and office management technology. The responsibilities of managing office services, layout and space utilization, office furniture and equipment, machines and appliances, personnel issues, controlling costs and office methods and procedures are included. Individual research required. (3-0)
- BA 311 **Business Law I** 3
Basic principles of law as applied to business transactions. Study of the law of contracts, sale of goods, warranties and negotiable instruments and secured transactions. These topics are tested on the Business Law portion of the C.P.A. exam. The interactions between social, political and economic factors with law are considered. (3-0)
Prerequisites: COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221
- BA 312 **Business Law II** 3
Study of the law of agencies, business associations, bankruptcy, property, employment law and environmental regulatory law are examined. These topics are tested on the Business Law portion of the C.P.A. exam. (3-0)
Prerequisites: COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221
- BA 313 **Ethical Issues in Business** 3
This course will examine ethical issues which arise and are unique to managerial decision-making in business settings. The course will proceed developmentally with ethical systems commonly used in business, personal ethics and, finally, ethics in business through case studies. (3-0)
- BA 315 **International Business Law** 3
An introduction to public international law with emphasis on international commerce and an examination of national laws and practices that states apply to international commercial transactions. (3-0)
Prerequisites: BA 260 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)
- BA 316 **Tourism & Recreation Law** 3
Students apply legal principles to recreation, hotel, travel, restaurant and entertainment contexts. Students complete risk management oral and written reports on actual enterprises based on extensive legal research using Lexis Nexis to check compliance with the Americans with Disabilities Act, civil rights legislation, state and federal statutes and precedents. This course can be used to fulfill upper-division electives in International Business, Management or Tourism and Resort Management options. (3-0)
Prerequisites: COMP 150 OR COMP 126 OR COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250
- BA 317 **Technical Analysis Securities** 3
This course teaches the practical application and theoretical principles of technical analysis techniques. Technical analysis is the study of market action, primarily through the use of charts and indicators for the purpose of forecasting future price trends. The course is focused on equity markets. (3-0)
Prerequisites: BA 380
- BA 330 **Tourism and Resort Management** 4
An introductory course covering the scope, organization and environment of the domestic and international tourism and resort industry. Topics to be covered include industry components, supply and demand, motivation and sociology, economics, public policy and environmental issues and current leadership and management challenges facing the industry. (4-0)
- BA 338 **Sports Marketing** 3
The study of sports as a business to be marketed. The marketing of both collegiate and professional sports will be investigated. Specific topics include: strategic sports marketing, segmentation strategies, sports as a product, sports promotion, pricing of sports, distribution of sports and spectators as consumers. (3-0)
Prerequisites: BA 340

BA 339 **Selling** 3
This course focuses on the relationship between buyer and seller, the selling process, buyer behavior, negotiations and the communication process. (3-0)
Prerequisites: BA 340

BA 340 **Marketing** 4
The course stresses marketing activities from a managerial perspective. It includes the marketing of goods and services and ideas in both business and non-business organizations. There is an emphasis on concepts of marketing and application of these concepts in decision-making and managing marketing variables in a dynamic domestic and international environment. Marketing principles are applied in a computerized industry game and/or cases. (4-0)
Prerequisites: (BA 103 or ACC 225) AND (ECON 262 or ECON 272) and junior standing

BA 342 **Retailing** 3
An introduction to retailing from the management point of view: study of retail policies and organization, the operation of the buying and selling functions, merchandise control, store systems, personnel management, retail accounting and expense control. (3-0)
Prerequisites: BA 340

BA 344 **Advertising** 3
This is an introduction to advertising that covers the structure and role of advertising agencies and the interaction between client and agency. The process of creating and placing advertising is explored including: advertising objectives, budgeting, media planning and mix, creative objectives and strategies, copy execution, production, and testing. This course presents a basic understanding for those students pursuing a career in advertising and enables those pursuing other career paths to effectively evaluate and use the services provided by advertising specialists. (3-0)
Prerequisites: BA 340

BA 346 **Managing Customer Value** 4
This course establishes the strategic marketing structure for a firm's ability to combine and manage the dimensions of product/service quality, customer service and price in a way to create an enduring competitive advantage. The course uses lectures, discussions, cases and spreadsheet analyses to achieve its objective. (4-0)
Prerequisites: BA 340

BA 347 **Consumer Behavior** 3
This course explores behavioral theory as it relates to consumer and industrial decision processes. Relevant concepts and recent research findings are drawn from the fields of marketing, psychology, sociology and communications. Applications of these ideas is directed toward improving marketing management and decision-making. (3-0)
Prerequisites: BA 340

BA 348 **Public Relations** 3
This course will introduce students to the marketing and managerial functions of public relations, the public relations process and techniques of message preparation for a variety of media. (3-0)
Prerequisites: BA 340

BA 353 **Operations Management** 4
Concepts and methods for economical planning and control of activities required for transforming a set of inputs into specified goods or services. Emphasis is given to forecasting, decision analysis, cost analysis, design of production systems, production/marketing relationships, operations planning and control and the importance of global competitiveness. (4-0)
Prerequisites: (BA 253 OR PSYC 241 OR MATH 201)

BA 356 **Business of Gaming** 4
This class/study tour will investigate the history of world, United States, and Las Vegas gaming as a business and tourist attraction. Students will be exposed to how the different games of Las Vegas relate to probability theory, the sociology of gaming including gambling as an addiction, and the business and marketing of gaming. (3-2)

BA 370 **Topics in International Bus** 1-6
An examination of selected topics and issues pertaining to the international marketplace. Students may take this course one or more times for credit.

BA 372 **Global Business Seminar** 4
Addresses the unique issues, challenges and opportunities in the global business community. The strengths and weaknesses of current developments and trends of business globalization are examined in a context of social, cultural, political, economic and environmental concern. (4-0)
Prerequisites: (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)

BA 380 **Financial Management** 4
An introductory course focusing on financial analysis and decision-making, including time value of money, valuation of stocks, bonds and other securities, investment risk management, capital budgeting, cost of capital and long- and short-term financing for firms competing in a global business environment. (4-0)
Prerequisites: ACC 225

BA 382 **Money, Banking & Finance Insti** 4
Provides a descriptive and analytical understanding of the structure and operation of financial institutions and markets using both historical and international perspectives. Topics examined include the major categories, the role of the central bank and interest and exchange rate theories. (4-0)
Prerequisites: BA 380

BA 386 **Insurance** 4
A study of the types of coverage, buying strategies and various types of insurance companies. Emphasis is placed on insurance contracts, risk management programs, fire, marine, casualty, business property and liability, life and other types of insurance. (4-0)
Prerequisites: BA 380

BA 387 **Real Estate** 4
An introductory course providing a foundation for those interested in real estate as a professional career, an investment mechanism or simply as home ownership. Topics covered include legal considerations for listing, sale and transfer of real property rights, the regulation, practices and legal ethics of real estate agents and the appraisal, investment analysis and financial techniques of real property. (4-0)

BA 389 **International Finance** 4
This course is concerned with the financial management of a multinational corporation. Special consideration is given to foreign exchange risk management, investment analysis, capital budgeting, capital structure and working capital management. (4-0)
Prerequisites: BA 380

BA 392 **Research Topics** 1-3
Students will conduct an organizational study or do research intended for publication. Research projects will be supervised by a School of Business Administration professor. Projects will be designed to extend students' knowledge in one or more of the following areas: Accounting, Agricultural Business, Business Administration, Economics, Finance, Information Management, International Business, Management, Marketing, and/or Tourism and Resort Management. Students wishing to use this course to meet specific departmental requirements must receive permission from the Dean's Office. Course may be repeated for up to 9 credits. Instructor permission required.

BA 402 **Electronic Commerce** 4
This course introduces the student to the technical and business considerations for creating a business website. Technical considerations include website design and structure strategies, web security, EDI and payments system implementation and development of business strategy and digital nervous systems within the business environment. This course is best suited to upper-level Business or Computer Science majors. This is the same course as CSIS 402; credit will be given for only one of these courses. (4-0)
Prerequisites: CSIS 322 OR CSIS 106 OR CSIS 110

BA 407 **Management Consulting** 4
The study of the concepts and models of management consulting and their application in business organizations. Emphasis is on practical application and the use of relevant tools and techniques. Students are required to engage in consulting services. (2-4)
Prerequisites: BA 301 AND BA 340 AND BA 353 AND BA 380 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)

BA 437 **Internship in Business** 3
Directed experience working in a business organization performing professional duties and responsibilities. Specific requirements will depend on the supervising college faculty member but include, as a minimum, the keeping of a detailed journal and the completion of a term paper. A minimum of 150 hours of directed experience will be required, however, normally students complete 200-300 hours. The student's performance will be evaluated by his/her supervisor in the business organization as well as the assigned college faculty member. Students wishing to use the course to meet specific departmental requirements must receive permission from the Dean's Office. Instructor permission required.

BA 439 **Marketing & Mgmt of Services** 4
The integration and application of relevant business theories, techniques and skills to industry issues and problems through lectures, cases and a major project. Areas of emphasis will include the strategic service vision, operational strategies and operations management, law, service delivery systems, marketing, people and the service culture, quality control, management accounting, financial management as well as the global implications of services management. (4-0)
Prerequisites: BA 340

BA 445 **Marketing Strategy and Policy** 4
An integrated course in marketing strategy and policy, employing comprehensive case problems in the formulation of marketing action programs and business policy. Heavy emphasis is placed on the writing and presentation of marketing plans. (4-0)
Prerequisites: BA 340 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)

BA 446 **Marketing Research** 4
This course provides students with a knowledge base and skills for planning and conducting a research project as the basis of making efficient, effective and ethical marketing decisions. A special emphasis is placed on the marketing research process to study behavior in the marketplace via exploratory approaches such as focus groups and more systematic approaches such as surveys. (4-0)
Prerequisites: BA 340 AND (BA 253 OR MATH 201 OR PSYC 241)

BA 481 **Cases in Financial Management** 4
This course will apply the tools learned in BA 380 to a variety of business problems and cases. Areas of analysis will not be confined to finance, but will include decision making in marketing, management, etc., realizing the interdisciplinary reality of business. (4-0)
Prerequisites: BA 380 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)

BA 485 **Investments & Portfolio Mgmt** 4
Analysis of various investment theories is accompanied by a study of the securities markets. Areas of emphasis would include analysis and valuation of stocks and derivative securities, implications of diversification for return and risk of a portfolio, and strategies for the management of portfolio risk. (4-0)
Prerequisites: BA 380

BA 496 **Senior Sem in Strategic Mngmt** 4
The integration of managerial theories, techniques and skills provides vicarious experiences and research in administrative decision making, policy, strategy and tactics. Emphasis is on the total organization and its internal and external relationships and responsibilities. Cases analyzing firms ranging from small to large, local to international and profit to not-for-profit are covered. An appropriate term paper is required. (4-0)
Prerequisites: BA 260 AND BA 301 AND BA 340 AND BA 353 AND BA 380 AND (COMP 250 OR COMP 252 OR COMP 253 OR ENGL 268 OR HIST 250 OR BA 221)

BA 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour. Instructor permission required.

BIOLOGY

BIO 105 GSC1 **Issues in Genetic Engineering** 4
During this course, students will study what genetic engineering is, how this relatively new biotechnology works and key examples of genetic engineering in both agriculture and medicine. The foci of this course are 1) the societal, ethical, political and economic issues that arise due to the use of genetic engineering technology and 2) the basic science of genes, gene expression and recombinant DNA technology that makes genetic engineering possible. Students will analyze and discuss genetic engineering issues with an eye toward making informed personal decisions about the use of this technology. During the laboratory element of this course, students will engage in genetic analysis, genetic engineering of cells and a self-designed project related to genetic engineering. (3-3)

BIO 110 GSC1 **Modern Biological Issues** 4
An introductory biology course providing the non-science major with a comprehensive view of modern biology, especially how it affects man. Concepts of scientific method will be covered in this course to give the non-major a feeling for processes that are carried out in biological research. Credit not applicable to the Biology major. (3-3)

BIO 112 GSC2 **Intro to Organismic & Evol Bio** 4
This course covers the nature of biological inquiry, basic ecology, cellular reproduction, Mendelian genetics and basic evolution theory. Using these basic topics, the course will also incorporate reading and interpreting the biological literature, hypothesis testing, data analysis and current social and ethical issues surrounding biology. Required for all biology majors and should be seriously considered by those contemplating majoring in any science. (4-0)

BIO 113 **Intro to Cell & Molecular Bio** 4
This course covers basic biochemistry, energetics, cell biology, gene expression and basic cellular plant and animal physiology. The laboratory will include experiments such as basic cell fractionation, enzymology and osmosis/diffusion. This term will culminate in a guided, student-designed experiment. (3-3)
Prerequisites: BIO 112 OR co-enrollment in CHEM 150

- BIO 125 GSC2 Conservation Biology** 3
An introduction to issues related to species and ecosystem preservation with particular reference to mechanisms of change and human impacts on the environment. This course will focus on biodiversity, habitat loss, species extinction, exotic species and their impacts, and opportunities for human intervention in alleviating trends in species loss and ecosystem degradation. (3-3)
- BIO 132 Human Sexuality** 3
Biological aspects of human reproduction supplemented by discussion of medical, societal, psychological and ethical issues. Credit not applicable to the Biology major. (3-0)
- BIO 141 Global Ecological Issues** 3
This course examines population growth, the availability of food and water and human-influenced environmental change, particularly global warming and ozone depletion, from various cultural perspectives. The current scientific understanding and policy responses to these issues are discussed. The concept of "sustainability" is introduced and examples of its application are presented. (3-0)
- BIO 202 Plant and Human Affairs** 4
This course reviews the way humans have used plants for food, fiber, drugs, building products, etc., as well as how plants in turn have affected the human race. This course is designed for non-Science majors. Credit not applicable to the Biology major. (3-3)
Prerequisites: (COMP 150 OR COMP 126 OR COMP 250)
- BIO 206 General Botany** 4
This course has two parts. Part one addresses the structure, development and physiology of vascular plants. Part two presents a survey of the structure, reproduction, evolution and relation to humans of the fungi, algae, bryophytes, ferns, gymnosperms and angiosperms. (3-3)
Prerequisites: BIO 113
- BIO 207 General Zoology** 4
A survey of the field of zoology and its major subdivisions. It includes an overview of the evolutionary relationships of animal groups from protozoa through vertebrates. (3-3)
Prerequisites: BIO 113
- BIO 210 Survey of Organismic Diversity** 4
Topics will include the Three Domain System, mitosis and meiosis, life cycles and representative groups from the major kingdoms. Labs will focus on observation of many representative organisms, major tissue types and organ systems and comparative morphological and reproductive characteristics in those groups. Intended for the Cellular and Molecular Biology option. (3-3)
Prerequisites: BIO 113
- BIO 230 Current Topics in Medicine** 2
Students interested in health professions will be provided with background information in specific medical therapies. They will then attend a seminar on that topic given by members of the medical community. Biology majors may take this course once at the 230 level and once at the 330 level and apply all 4 credits for a major elective requirement. Biology minors may use only 2 credits of 230 or 330 towards minor requirements. (2-0)
Prerequisites: BIO 113
- BIO 233 Human Anatomy** 3
An introduction to the structure of the human body at the cell, tissue, organ and system levels. (2-3)
- BIO 234 Human Physiology** 3
This course will examine the physiological function of selected organ systems in the human body. Using the basic sciences of biology, chemistry, and anatomy, the structure and function of the human nervous, muscular, cardiovascular, and respiratory systems will be examined. The course will also explore the technologies used to study and describe the function of these body systems (2-3)
Prerequisites: BIO 233
- BIO 250 GSC1 Ecology of the Southwest** 4
This course provides an understanding of the scientific method by investigating the ecology of the Southwest. Through field trips and research projects, students learn to recognize major plant and animal species and ecological factors that limit species distribution and abundance. Lectures and readings provide insights into major ecological processes, e.g., population growth, food webs and natural disturbances. This course is the same as SW 250; credit will be given for only one of these courses. (3-3)
- BIO 260 Genetics** 4
A survey of basic genetic processes. Topics include transmission, population and evolutionary genetics as well as basic molecular processes such as DNA replication, transcription and translation. (3-3)
Prerequisites: BIO 113 AND CHEM 151
- BIO 270 Foundations of Molecular Bio** 4
This course is a foundational course for students interested in molecular and cellular biology. Students will examine the key paradigms of molecular cell biology such as mechanisms of gene expression, regulation of gene expression and the relationship between molecule structure and function. The laboratory will introduce students to the molecular approaches and techniques used to study gene expression. Methods used in lab will include recombinant DNA technology, transformation techniques, nucleic acid isolation and analysis and protein analysis. (3-3)
Prerequisites: BIO 113 AND BIO 210
- BIO 299 Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.
- BIO 302 Systematic Botany** 4
A study of the identification, classification and relationships of the vascular plants with emphasis on temperate flowering plant families. Major emphasis will be given to the origin of flowering plants and especially the nature of species as revealed by modern techniques. Laboratory work will focus on the use of keys and terminology, the identification of species and the recognition of family characteristics. (2-6)
Prerequisites: BIO 206
- BIO 303 Histology** 4
Study of the microscopic structure of the major tissues and organs of the vertebrate body. The relationship between structure and function of these tissues and organs will be examined. (3-3)
Prerequisites: BIO 207 OR BIO 210
- BIO 304 Field Zoology** 5
A study of primarily vertebrate animals with emphasis on taxonomic and ecological relationships, and with an introduction to various wildlife management and field study techniques. Laboratory work includes identification and occasional collection and museum preparation. (4-3)
Prerequisites: BIO 207

- BIO 305 **Entomology** 4
 A study of insect anatomy, physiology, identification, ecology and behavior. Laboratories will emphasize field work and insect family identification. (3-3)
 Prerequisites: BIO 207
- BIO 310 **Pollination Biology** 4
 A study of the principles of pollination biology including abiotic and biotic syndromes. Topics will cover primary and secondary attractants of plants, adaptations of pollinators, effect of pollination systems on plant population structure, competition among plant species for pollinators and pollination strategies of agricultural crops. (3-3)
 Prerequisites: BIO 206 OR BIO 207
- BIO 315 **Ichthyology** 4
 Study of freshwater and marine fishes with emphasis on diversity, adaptations, evolution, ecology and species interrelationships. Laboratory work includes identification of important freshwater and marine species and investigation of behavioral and ecological mechanisms. (3-3)
 Prerequisites: BIO 207
- BIO 320 **Fundamentals of Ecology** 4
 A study of the relationships among organisms and their environments, at several different levels and scales. Provides an overview of the extremely diverse field of ecology, from the ecology of individual organisms and their adaptations to the environment, to the dynamics of populations and species interactions in ecological communities, and the intricacies of energy flow and nutrient cycling in ecosystems. (3-3)
 Prerequisites: (BIO 206 OR BIO 207) AND MATH 121 AND (MATH 201 OR PSYC 241 OR BA 253)
- BIO 321 **General Physiology** 4
 Examination of basic physiological concepts from the cellular through the systemic level. Topics include energy metabolism and its control, nerve function, movement, cardiovascular physiology, immune response, water regulation and integrative control systems. (3-3)
 Prerequisites: (BIO 207 OR BIO 210) AND CHEM 150
- BIO 324 **Mammalogy** 4
 The course will examine the zoology (i.e., characteristics, origin, evolution, zoogeography, systematics, ecology, behavior, physiology and conservation) of mammals (Class Mammalia). These topics will be covered by emphasizing both classical (or historical studies) and recent (or contemporary) research. Laboratory work will involve both field identification of mammals from field trips and laboratory work concerning taxonomic and morphological studies. (3-3)
 Prerequisites: BIO 207
- BIO 330 **Current Topics in Medicine** 2
 Students interested in health professions will be provided with background information in specific medical therapies. They will then attend a seminar on that topic given by members of the medical community. Biology majors may repeat this course at the 230 level and use all 4 credits for the major elective requirements. Biology minors may use only 2 credits of either 230 or 330. (2-0)
 Prerequisites: BIO 113
- BIO 331 **Microbiology** 4
 A survey of the microbial world with emphasis on ecology, physiology and genetics of prokaryotes. Laboratory activities emphasize staining, culturing and biochemical identification techniques as well as experimental exercises with bacteria of medical, economic and agricultural importance. (3-3)
 Prerequisites: (BIO 207 OR BIO 210) AND CHEM 250
- BIO 334 **Ornithology** 4
 Ornithology is the study of birds. In this course, we will study a variety of ornithological topics, such as morphology, physiology, ecology, populations, reproduction, behavior, migration, systematics, and evolution. Additionally, we will investigate current and pressing avian conservation issues and policy with a participatory approach. In the laboratories and on field trips, we will concentrate on morphology, flight, adaptations, identification, and systematics. (3-3)
 Prerequisites: BIO 207
- BIO 341 **Vertebrate Comparative Anatomy** 4
 A comparative study of the morphology of representative vertebrates with the objectives of understanding their evolutionary relationships and the functional basis of their variations on a common plan. (3-3)
 Prerequisites: BIO 207
- BIO 342 **Embryology & Dev Bio of Vert** 4
 A detailed study of reproduction and development in representative vertebrates. The laboratory work explores the anatomy of the development in depth, and the lecture correlates this development with and explains on the basis of cellular and molecular events during ontogeny. (3-3) Prerequisites: (BIO 207 OR BIO 210) AND BIO 260
- BIO 360 **Bryophytes & Lichens** 4
 A course treating the taxonomy, morphology, ecology, reproduction and evolution of the Bryophytes and Lichens. (3-3)
 Prerequisites: BIO 206
- BIO 375 **Ecology Symposium** 1
 This course prepares students to participate in the Ecology Symposium at Colorado State University. All students who take this course will give an oral poster presentation at the Ecology Symposium in March. Students registering for the course must have a sound ecological project to present. These projects can be summer research projects or senior thesis projects. Instructor permission is required. May be repeated once for an additional 1 credit. (1-0)
- BIO 376 **Field Ecology** 5
 An advanced, project-based ecology course that emphasizes sampling methods, description of local plant and animal communities and techniques of environmental monitoring in terrestrial and aquatic ecosystems.
- BIO 380 **Issues/Evolutn & Biol Thought** 4
 This course will address the critical issues of writing in the biological and/or agricultural sciences using the topics of evolution and patterns of biological thought as a basis for writing, reading and discussion. Many aspects of evolution in a variety of sub-disciplines of biology and agriculture will be covered. (4-0)
 Prerequisites: BIO 112 AND BIO 113 AND (BIO 206 AND BIO 207) OR BIO 210
- BIO 385 **Desert Biology** 3
 This course covers all aspects of desert biology - ecology, physiology, organismic biology, etc.- of all deserts around the world, with a special emphasis on adaptations and natural history of organisms in North American deserts. (3-0)
 Prerequisites: BIO 206 AND BIO 207 AND CHEM 150 AND CHEM 151
- BIO 407 **Evolution** 3
 A survey of the current explanations of evolutionary mechanisms. (3-0)
 Prerequisites: BIO 260

BIO 455 Cellular & Molecular Biology 4
This course will focus on the examination of gene expression mechanisms and their regulation, organelle compartmentalization of the eukaryotic cell and the functional relationships of cell molecules, organelles and other cellular structures such as the cytoskeleton. (3-3)

Prerequisites: CHEM 251 AND BIO 270

BIO 456 Cell Physiology 4
Examination of physiological control mechanisms at the molecular level. Cell communication, receptor-ligand interactions and control of cell growth and development will be examined, as well as the lab techniques used to study them. Laboratory will use molecular cloning and cell culture techniques to examine cell physiology. (3-3)

Prerequisites: BIO 321 AND BIO 270 AND BIO 455 AND (CHEM 251 OR CHEM 311)

BIO 460 Immunology 4
A comprehensive introduction to the mechanisms of disease resistance and immunopathology. Topics include self/non-self discrimination, inflammation and innate immune mechanisms, antibody structure and function, immune cells/cell subsets and the consequences of immune system failure. Application of immunochemical techniques and the immune mechanisms involved in vaccination, pregnancy and fetal development, allergy, autoimmunity, cancer, organ transplantation and AIDS are also discussed. (3-3)

Prerequisites: BIO 270 AND BIO 331 AND CHEM 251

BIO 470 Wildlife Management 4
This course examines the current principles of wildlife management, including populations, managing habitat, wildlife resources, behavior, wildlife diseases, predators, brood parasites, mitigation, hunting, introduced and endangered species, farming, grazing, laws and policies, balancing opposing views, and learning from mistakes of the past. A hands-on participatory approach is taken, and visits are made to on-the-ground projects with state and federal agencies. (3-3)

Prerequisites: BIO 206 AND BIO 207 AND BIO 220

BIO 480 Internship in Biology 1-3
Directed work experience in the biological sciences. Minimum requirements are that the students maintain a detailed journal and complete a term paper. Requires at least 125 hours of directed experience. Credit for this course cannot be applied toward the Biology major.

BIO 496 Senior Seminar 2
Advanced study and individual field/lab research in a topic of the student's choosing. This course must be taken in sequence with Bio 497 in the following semester. Junior or senior standing. (2-0)

Prerequisites: MATH 201 OR MATH 205

BIO 497 Senior Thesis 2
Advanced study and individual field/lab research in a topic of the student's choosing. This course is a continuation of Bio 496. (1-3)

Prerequisites: BIO 496

BIO 499 Independent Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

CHEMISTRY

CHEM 123 GSC2 Chemistry for Consumers 3
Topics of interest to the consumer, with focus on making personal choices of everyday chemicals. Topics may include food additives and nutrition, cosmetics, drugs, pesticides, fertilizers, soaps, detergents, fabrics and plastics. The course presents basic principles leading to a practical understanding. This is a "humane" chemistry course for people afraid of science and mathematics. Credit will not be given for both Chemistry 123 and 323. (3-0)

CHEM 125 Environmental Chemistry 3
Chemical terminology and models will be developed and applied to understanding the impacts of Homo sapiens on the natural world. Topics include natural ecosystems, anthropogenic influences on those ecosystems and application of fundamental chemical principles to our understanding of environmental issues. This is a chemistry course for people concerned about environmental issues but who are not Science majors. (3-0)

CHEM 150 GSC1 Fund of Chem I Atoms/Molecules 4
A study of the fundamental principles guiding current thought on atoms and molecules and their relation both to the micro- and macro-scale world in which we live. This includes the traditional uses of mass, energy, and intermolecular forces to model our current understanding of diverse topics, including materials and environmental concerns. The laboratory emphasizes the properties of materials and chemicals in the environment. (3-3)

Prerequisites: TRS 92 OR MATH 110 OR Computed Math Placement MA110 OR MATH 121 OR MATH 201 OR MATH 210 OR MATH 221 OR MATH 222

CHEM 151 GSC1 Fund of Chem II Chem Reaction 4
An integrated study of the fundamental kinetic and thermodynamic principles guiding chemical change and equilibrium. These principles are applied to the acid-base and electron chemistry of aqueous systems with important applications for living systems, geological processes and environmental issues such as air and water quality, climate, energy use and nuclear hazards. The laboratory includes various techniques in chemical analysis in aqueous systems as well as applications of reaction principles. (3-3)

Prerequisites: CHEM 150 AND (MATH 110 OR MATH 121 OR MATH 201 OR MATH 210 OR MATH 221 OR MATH 222)

CHEM 152 Fund of Chem I: Problem Solving 1
Supplement to Fundamentals of Chemistry I for students who wish to explore the concepts in greater depth. (1-0)

Prerequisites: CHEM 150

CHEM 153 Fund of Chem II: Problem Solving 1
Supplement to Fundamentals of Chemistry II for students who wish to explore the concepts in greater depth. Available only to students who are currently enrolled in Chem 151. (1-0) Prerequisites:

CHEM 250 Org Chem I: Organic Compounds 4
Fundamentals of bonding, structure and nomenclature of carbon compounds. Principles of stereochemistry and reaction mechanisms are introduced and illustrated with alkanes, alkenes, alcohols and alkyl halides. Acid-base, nucleophilic substitution, electrophilic addition, and elimination reactions are discussed. The laboratory addresses techniques of synthesis, separation and analysis of organic compounds. (3-3)

Prerequisites: CHEM 150 AND CHEM 151

- CHEM 251 **Org Chem II: Biological Chem** 4
Fundamentals of structure and reactivity of alcohols, ethers, aldehydes, ketones, acids, amines, aromatic compounds and acid derivatives. Introduction to the chemistry of biological compounds including sugars, lipids, proteins and coenzyme catalysts. The laboratory emphasizes FT-IR and FT-NMR analysis of organic compounds, multi-step synthesis and identification of unknown compounds by chemical and spectroscopic methods. (3-3)
Prerequisites: CHEM 250
- CHEM 252 **Org Chem I: Discussion Sec** 1
Supplement to Organic Chemistry I for students who wish to explore the concepts in greater depth. (1-0)
Prerequisites: CHEM 250
- CHEM 253 **Org Chem II: Discussion Sec** 1
Supplement to Organic Chemistry II for students who wish to explore the concepts in greater depth. (1-0)
Prerequisites: CHEM 251
- CHEM 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.
- CHEM 300 **At the Forefront of Chem Research** 3
Survey of the chemical and biochemical literature to become familiar with the newest and most exciting research topics. Papers from the secondary scientific literature on these topics will be selected for discussion and for critical analysis of ideas, writing styles and conventions. Further investigation of topics through the use of electronic bibliographic tools will extend these topics into research projects reaching to their roots in the primary research literature. Students will write extensively and give well-organized oral presentations on chemical topics. Instructor consent. (3-0)
Prerequisites: (COMP 150 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent OR GCO2) AND CHEM 250
- CHEM 305 **Nat Prod From Plant** 3
A comprehensive study of the biologically active constituents of plants of the Southwest and elsewhere. Medicinal compounds, poisons, and allelochemicals are emphasized. Chemical structures, physiological activity, plant sources and biosynthetic pathways are discussed. Lab work includes field gathering, isolation and identification of compounds. (1-4)
Prerequisites: CHEM 250
- CHEM 311 **General Biochemistry I** 3
The basic principles of biochemistry. Emphasis is on the structure and function of proteins and lipids and the metabolic processes occurring within living organisms. (3-0)
Prerequisites: CHEM 304
- CHEM 312 **General Biochemistry Lab** 1
Basic biochemical techniques. (0-3)
Prerequisites: CHEM 311
- CHEM 313 **General Biochemistry II** 3
The basic principles of biochemistry. Emphasis is on nucleic acid chemistry, carbohydrates and immune response. (3-0)
Prerequisites: CHEM 311
- CHEM 323 **Chemistry for Consumers** 3
Topics of interest to the consumer, with focus on making personal choices about the use of everyday chemicals. Topics may include food additives and nutrition, cosmetics, drugs, pesticides, fertilizers, soaps, detergents, fabrics and plastics. For upper division credit, this course will require extensive writing exercises culminating in a major research paper on a consumer topic. Credit will not be given for both Chemistry 123 and 323. (3-0)
- CHEM 351 **Pharmacology** 3
Studies of the effects produced by drugs and of their administration, absorption, distribution and excretion. Special emphasis is placed on the theories of the mechanism of action of drugs. (3-0)
- CHEM 356 **Phys Chem I: Quantum Mechanics** 3
A study of the quantum theory of atoms and molecules. Includes fundamentals of quantum mechanics, electronic structure of atoms and molecules, molecular symmetry, molecular and reaction dynamics and the interaction of matter with light. (3-0)
Prerequisites: CHEM 151 AND (PHYS 201 OR PHYS 217) AND MATH 222
- CHEM 357 **Phys Chem II: Thermodynamics** 3
An introduction to thermodynamics and its application to chemical processes. The course explores why chemical reactions occur, the nature of chemical equilibrium, the factors determining the speed of reactions and the role of temperature in reactions and equilibria. Includes elementary kinetic gas theory and the Boltzmann distribution, energy, entropy, free energy and equilibrium, ideal solutions, colligative properties and reaction rate theory. (3-0)
Prerequisites: CHEM 356
- CHEM 360 **Physical Measurements** 2
Instruction in design of experiments to measure physical properties and the analysis of data. These general techniques are applied in studies of kinetics, thermochemistry, electrochemistry, spectroscopy and molecular structure. (0-6)
Prerequisites: CHEM 356
- CHEM 363 **Inorganic Chemistry** 3
This course builds a descriptive and theoretical framework for understanding inorganic systems. Advanced atomic structure and bonding theories will be applied to understanding the properties and reactions of inorganic compounds. Special topics such as main group and solid state chemistry will be addressed. (3-0)
Prerequisites: CHEM 251
- CHEM 365 **Analytical Chemistry** 4
Introduction to quantitative analytical chemistry. A rigorous development of the theory of chemical equilibria is presented to guide the development of laboratory skills, the rational design of experimental methodologies, and the use of instruments. Major topics include chemical and chromatographic separations, spectroscopic analysis and electrochemical methods. (3-3)
Prerequisites: CHEM 151
- CHEM 380 **Intro to Chemical Research** 1
This course consists of undertaking a project of an advanced nature. As a class, all aspects of the project will be discussed, including choosing an appropriate project, performing a literature search, defining a project, setting goals, planning experiments and reporting results. Individually, each member of the class will be working on their project once that project has been selected in consultation with the instructor. Repeatable for credit up to a maximum of 5 credits. (1-0)
- CHEM 381 **Intro to Chemistry Research Lb** 1-3
This is the laboratory to accompany Chem 380, Introduction to Chemical Research. This course must be taken along with Chem 380. Repeatable for credit up to a maximum of 15 hours.
- CHEM 411 **Advanced Biochemistry** 3
Advanced studies of biochemical concepts will be done in this class. The primary literature and other readings will be used for more advanced study of biochemical topics that include, but are not limited to: macromolecular structure and function, catabolic and anabolic metabolism and control, nucleic acid metabolism and control, and signaling pathways. (3-0)
Prerequisites: CHEM 313 or instructor permission
- CHEM 431 **Advanced Organic Chemistry** 3
Advanced studies of organic reactions and reaction mechanisms. Strategies of stereoselective synthesis of complex organic molecules will be studied. (3-0)
Prerequisites: CHEM 251

CHEM 454 **Adv Topics in Chemistry** 1-4
Examples of offerings include FT NMR techniques, bio-organic and bio-inorganic chemistry and advanced topics in analytical, physical and organometallic chemistry. Instructor consent is required.

CHEM 460 **Synthesis and Spectroscopy** 3
A laboratory course in advanced synthesis techniques, with emphasis on the synthesis of organic and organometallic compounds. Advanced methods of purification and structure elucidation will be employed. Students will be familiarized with the primary synthesis literature. Spectroscopic methods will emphasize FT-NMR techniques. Student-designed research projects will allow for directed exploration of synthesis techniques and identification of reaction products (1-6)
Prerequisites: CHEM 251

CHEM 464 **Advanced Inorganic Chemistry** 4
This course covers advanced inorganic chemistry concepts, including modern bonding theories and coordination chemistry of transition metals. Special topics, including catalysis, organometallic, environmental and bioinorganic chemistry will be addressed. The laboratory focuses on advanced synthetic techniques employed by inorganic chemists, including solid state, metal coordination and air-sensitive organometallic reactions. (3-3)
Prerequisites: CHEM 363 AND CHEM 356

CHEM 465 **Instrumental Analytical Chem** 4
Advanced instruction in state-of-the-art instrumental analysis, including separations methods, spectroscopic analysis and electrochemical methods of detection. Emphasis is placed upon analytical decision-making, instrumental design and analysis of "real world" samples. Technical report writing is emphasized. Aspects of environmental analysis, pharmaceutical analysis and bioanalytical chemistry are also included. (3-3)
Prerequisites: CHEM 365 AND CHEM 360 AND CHEM 300

CHEM 496 **Seminar** 1
Preparation of library thesis on significant research topic from recent primary literature. Includes chemical abstracts instruction, online literature searching, advanced library techniques and advanced technical writing and presentations. Also career preparation activities and participation in seminars by visiting scientists. (1-0)
Prerequisites: CHEM 300

CHEM 497 **Seminar** 1
Continuation of Chem 496 with emphasis upon presentation of senior thesis to the chemistry community. (1-0)
Prerequisites: CHEM 496

CHEM 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

COMPOSITION

COMP 115 **Speech: A Rhetorical Act** 3
Composing messages appropriate for the occasion, purpose and audience is critical to being a successful speaker. In this course that combines the rhetorical arts of writing and speaking, students analyze others' presentations and compose and deliver presentations of their own. (3-0)

COMP 125 **Reading in College** 3
This course introduces students to the purposes and practices of scholarship, with an intensive emphasis on the interplay of reading and writing in academic work. This course is designed for students who need a more closely guided and intensive introduction to academic reading and writing. Comp 125 and Comp 126 are college-level courses; students who need remedial instruction should complete TRS 90 and/or TRS 91 (C- or better), as recommended, before enrolling in Comp 125. Completion of Comp 125 and Comp 126 will fulfill the Introductory Writing (CO1) general education requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126. (3-0)
Prerequisites: FLC Reading Placement Score C125 OR FLC Reading Placement Score C150 OR TRS 90 OR TRS 91

COMP 126 GCO1 **Writing in College** 3
In this course, students analyze a variety of academic texts in different research literatures and complete an intensive series of writing assignments to teach them how to interpret arguments, identify constraints and bias, organize and present evidence and compose their own contributions to intellectual dialogues. This course is designed for students who need a more closely guided and intensive introduction to academic writing. Completion of Comp 125 and Comp 126 will fulfill the Introductory Writing (CO1) general education requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126. (3-0)
Prerequisites: COMP 125

COMP 150 GCO1 **Reading and Writing in College** 4
This course emphasizes the interplay of reading and writing in an academic environment. Students will analyze a variety of academic texts and complete a series of writing assignments designed to teach them how to interpret arguments, identify constraints and bias, organize and present evidence and compose their own contributions to intellectual dialogues. (4-0)
Prerequisites: FLC Reading Placement Score C150

COMP 250 GCO2 **Academic Inquiry and Writing** 4
This course guides students through the process of proposing, conducting, and presenting an independent academic research project. (4-0)
Prerequisites: COMP 150 OR COMP 126

COMP 252 GCO2 **Professional & Tech. Writing** 3
This course introduces students to the inquiry, critical thinking, and writing practices that occur in professional and technical settings.
Prerequisites: COMP 126 OR COMP 150

COMP 253 GCO2 **Action Research** 3
This course contributes to students' development of intellectual competencies of reading, critical thinking, research, and writing. The course will introduce students to action research, a form of inquiry focusing on developing an understanding of an issue and bringing about action in the form of change. (3-0)
Prerequisites: COMP 126 OR COMP 150

COOPERATIVE EDUCATION

COOP 200 **Cooperative Education** 1-10
A first-time cooperative education work experience by underclassmen.

COOP 300 **Cooperative Education** 1-12
A cooperative education work experience by upperclassmen. A maximum number of credits is allowed toward a degree.

COOP 400 **Cooperative Education** 1-12
An advanced cooperative education work experience by upperclassmen who have completed one or more Co-op terms. A maximum number of credits is allowed toward a degree.

COMPUTER SCIENCE INFO SYSTEMS

- CSIS 103 Computer Literacy 2**
Computer skills are essential for successful learning in college. This course teaches students how to operate a computer, use email and navigate the internet, and use word processing, spreadsheet, database, and presentation software. This course will not count for CSIS majors or minors. (0-4)
- CSIS 105 The Computer as a Tool 4**
Introduction to personal computer productivity tools using Microsoft Windows and MS Office Suite (Word, Excel, Powerpoint, and Access), creation of documents that require the integration of applications using multi-tasking and object linking and embedding, and creating websites. Credit may not be received for both CSIS 322 and CSIS 105. (2-4)
- CSIS 106 Intro to Prog Visual Basic 4**
Point-and-click methods will be combined with elementary programming concepts to develop Microsoft Windows applications using Visual Basic.NET with a graphical user interface. Topics include input and output controls, control structures, debugging techniques and file manipulation. (2-4)
- CSIS 110 Intro to Programming in Java 4**
Introduction to programming in Java, problem-solving methods, algorithm development, program design, testing, debugging, and documentation. This course is required for students who wish to pursue further study in computer science. (2-4)
Prerequisites: MATH 110 OR MATH 121
- CSIS 203 Web Authoring 3**
This course introduces students to the tools and techniques of professional webpage development. Technical topics to be discussed will include basic webpage architecture, HTML, development software, standards compliance, and webpage publication. Additional topics will include typography, design, audience, and copyright. At the end of the course, students will be able to understand the entire webpage lifecycle from conception to maintenance. (2-4)
- CSIS 206 Adv Prog in Visual Basic 4**
A second course in Visual Basic.NET programming. Topics include: .NET architecture, object-oriented programming, exception-handling, multi-tier applications, database applications using ADO.NET, web programming using ASP.NET, web services and Crystal Reports. (2-4)
Prerequisites: CSIS 106
- CSIS 210 Data Structures 4**
Design, implementation, and use of classic data structures such as collections, stacks, queues, lists, and trees from an object-oriented perspective. Topics include inheritance, exception handling, graphical user interfaces, threads and library data structures. Recursion and algorithm complexity analysis are also emphasized. (2-4)
Prerequisites: CSIS 110
- CSIS 299 Individual Study 1-6**
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.
- CSIS 305 Discrete Structures 4**
Discrete Structures, core to many areas of computer science, involves concepts and objects divisible into separate parts. Topics investigated in this course include: time-complexity, random-number generation, hashing, public-key cryptography, applications of matrix operations, recursively defined functions and solving recurrence equations to analyze running time, permutations, combinations, probability, graphs, trees, finite-state machines, logic, and Boolean algebra. (4-0)
Prerequisites: CSIS 210
- CSIS 321 Computer Architecture & Organ 4**
Organization of computer systems, including operating characteristics of and interfaces between processors, control units, busses and memory. Studies and comparisons among modern computer architectures including the Intel and Sun families of microprocessors. Additional topics include assembly language, Boolean algebra and digital logic circuits, RISC machines and parallel architectures. (4-0)
Prerequisites: CSIS 210 OR CSIS 206
- CSIS 322 Management Information Systems 4**
A study of information processing, the systems concept, the analysis and design of information systems and data-base technology as they apply to producing information to be used in business decision-making. Advanced applications of word processing, spreadsheet and database software will be included. NOTE: THIS COURSE DOES NOT COUNT FOR CREDIT TOWARD THE CSIS MAJOR OR MINOR. CREDIT MAY NOT BE RECEIVED FOR BOTH CSIS 322 AND CSIS 105. (4-0)
Prerequisites: ACC 226
- CSIS 332 Java Programming for Internet 4**
Creating server-side web applications is the central topic of this course. Topics include: HTTP servlet basics, servlet lifecycle, sending HTML information, sending multimedia content, session tracking, security, database connectivity, Applet-servlet communication, and java server pages. (2-4)
Prerequisites: CSIS 210
- CSIS 333 Web Programming with .NET 4**
A course in the creation of web applications using the Microsoft .NET platform. Active server pages with embedded scripts written in C# will be created. Topics covered: web forms, web controls, user controls, cookies, custom controls, server controls and client-side scripting, security, XML processing, and multithreading (2-4)
Prerequisites: CSIS 206 OR 210
- CSIS 335 Accounting Information Systems 3**
An analysis of the effects of information technology on the control and maintenance of accounting information systems. Included is the application of contemporary accounting/business software tools in accounting information systems. NOTE: This course does not count for credit toward the CSIS major. (3-0)
Prerequisites: ACC 225
- CSIS 340 Comparative Programming Lang 4**
Basic notions of syntax (BNF grammars, derivation trees) and semantics (data types, control structures, parameter passing mechanisms, scope and lifetime of names) of programming languages. Comparison of logic, functional, object-oriented and procedural languages. Programming projects using various programming languages. (4-0)
Prerequisites: CSIS 210
- CSIS 350 Database Management Systems 4**
A study of the basic concepts, models, internal mechanisms and language aspects of database management systems (DBMS). The primary emphasis is on the definition, organization and manipulation of data at the logical level. Topics include: conceptual modeling, the relational model, transformation of conceptual to relational models, normalization, physical database design, SQL and GUI query languages, recovery, concurrency, security and integrity, distributed databases, internet database interfaces, client/server databases, database administration and feature analysis of DBMS. Students will design and implement relational database applications. (4-0)
Prerequisites: CSIS 206 OR CSIS 210
- CSIS 352 Project Management 4**
Issues surrounding business and software development projects; plan development and execution; cost estimation, sequencing, scheduling, and controlling activities for timely completion of projects; and collection and dissemination of project-related information. This course will utilize popular project management software (4-0).
Prerequisites: CSIS 105 OR CSIS 322

CSIS 360 Software Engin 1: Syst Anal 4
This is the first course in a recommended fall/winter sequence (with CSIS 370). Topics include software life cycle models, human factors, feasibility analysis, project scheduling, requirements analysis methodologies, preparing systems proposals, CASE, software project management and software quality assurance (technical reviews and inspections). Systems Analysis models are constructed using the Unified Modeling Language (UML). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. (4-0)
Prerequisites: CSIS 210 OR CSIS 206

CSIS 370 Software Engin 2: Syst Design 4
This is the second course in a recommended fall/winter sequence (with CSIS 360). Topics include systems design methodologies, implementation technologies, selection of hardware and software, CASE, software configuration management, software project management, software quality assurance (inspections and testing). Systems Design models are constructed using the Unified Modeling Language (UML). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. (4-0)
Prerequisites: CSIS 360

CSIS 380 Computer Graphics 4
Concepts relating to the graphical display of data. Techniques in two- and three-dimensional displays. Hardware and software of graphics systems will be discussed with hands-on experience using available tools. (3-2)
Prerequisites: CSIS 210

CSIS 402 Electronic Commerce 4
This course introduces the student to the technical and business considerations for creating a business website. Technical considerations include website design and structure strategies, web security, EDI and payment system implementation, development of business strategy, and digital nervous systems within the Business or Computer Science majors. This course is the same as BA 402; credit will be given for only one of these courses. (4-0)
Prerequisites: CSIS 322 OR CSIS 110 OR CSIS 106

CSIS 421 Operating Systems 4
A study of basic concepts of operating system design. Topics include process management, memory management, file systems, protections and security, process coordination, interprocess communication, distributed systems. Programming assignments leading to the construction of a simple operating system. (2-4)
Prerequisites: CSIS 210

CSIS 428 Computer Networks & Internets 4
A detailed study of local- and wide-area networks and of the internet's underlying protocols. Topics include: internet protocol addresses, address resolution, datagrams, IP encapsulation, fragmentation and reassembly, transport control protocol, client-server interaction, socket interface, domain name system, security and firewalls, electronic mail transfer, web pages and browsers. (2-4)
Prerequisites: CSIS 210

CSIS 431 Computer Network Administration 4
The class focuses on emerging network technologies as problem solutions. Examines such networked solutions as intranets, extranets, e-commerce and knowledge management applications. Network components and designs are compared in terms of performance, reliability and cost. Communication protocols and network connectivity are presented in the light of current standards. Network management is discussed in relation to technical and economic strengths and security needs. (4-0)
Prerequisites: CSIS 106 OR CSIS 110

CSIS 450 Parallel Programming 4
Algorithm and program evaluation and development for computer architectures with multiple processors. Topics include multi-computer and multi-processor architectures and programming languages that support parallelism on such architectures. (3-2)
Prerequisites: CSIS 210

CSIS 495 Internship in Computer Science 4
Detailed work experience in the computer industry. Minimum requirements: formal written proposal specifying internship duties, detailed weekly journal, final report and formal presentation summarizing the internship experience. A minimum of 150 hours (approximately 10 hours/week) of work is required. Students are evaluated by their employment supervisor and their CSIS professor.

CSIS 496 Senior Seminar 2
Advanced study and research in selected topics. (2-0)

CSIS 499 Independent Study 1-6
Individual study conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

ECONOMICS

ECON 170 Current Economic Issues 4
Explores current economic issues in society by developing a set of basic tools of economic analysis and then applying those tools to contemporary economic questions. Issues to be covered will include topics such as inflation, unemployment, the farm problem, U.S. economic leadership, poverty, environmental standards, our financial system and worldwide economic growth. Recommended for NON-BUSINESS MAJORS who are interested in taking only one course in economics. (4-0)

ECON 201 Personal Finance 3
Managing personal finances including budgeting, insurance, taxes, home ownership, investments, retirement and estate planning. This course is designed for majors outside the School of Business Administration. (3-0)
Prerequisites: (Computed Math Placement MA110 OR TRS 92)

ECON 262 GSS1 Principles of Econ-Micro 3
An introductory course in price theory. Topics include opportunity cost, demand, supply, markets, elasticities and the organization of markets. Sophomore standing required. (3-0)

ECON 266 Principles of Economics 4
An introductory course covering microeconomics and macroeconomics. The micro section includes opportunity cost, demand and supply analysis, elasticities, market behavior, market structures and international trade theory. The macro section includes national income theory, income flows, macroeconomic equilibrium and how these concepts are applied to examine economic growth, inflation, unemployment, monetary and fiscal policy, deficits and the national debt and balance of payments. (4-0)

ECON 272 GSS1 Principles of Econ-Macro 3
An introductory course on national income analysis. Included are income flows, macro economic equilibrium, monetary and fiscal policy and balance of payments. Sophomore standing required. (3-0)

ECON 307 Evolution of Economic Thought 4
Origins and evolution of the history of economic ideas and theories will be discussed. Topics include ancient and medieval thought, Roman and early Christian thought, the mercantilists, the physiocrats, Adam Smith and the Classical economists, Karl Marx, the Marginal Revolution, the Keynesian Revolution, and Contemporary economics. (4-0)
Prerequisites: ECON 266 OR ECON 262

ECON 310 Economic History of U.S. 4
A study of the origin and development of the economic institutions of the United States from Colonial times to the present. U.S. economic development is considered in relation to theories of economic growth and development. (4-0)
Prerequisites: ECON 266 OR (ECON 262 AND 272)

ECON 335 Environment/Resource Economics 4
A course using economic analysis to explain the underlying behavioral causes of environmental and natural resource problems and to evaluate the policy responses to them. Topics include air and water pollution, the allocation of renewable and exhaustible resources, and sustainable development. (4-0)
Prerequisites: ECON 266 OR ECON 262

ECON 356 Microeconomic Theory 4
This course deals with the price system as it directs resources to more efficient use. It deals with pricing under the various degrees of competition and stresses demand analysis. The principles of production economics are explored. (4-0)
Prerequisites: ECON 266 OR (ECON 262 AND ECON 272)

ECON 361 Managerial Economics 4
A course designed to connect economic theory with business decision-making. The course deals with the application of economic models to business decisions, quantitative methods for decision-making, cost-benefit and cost-effectiveness analysis. (4-0)
Prerequisites: ECON 266 OR (ECON 262 AND ECON 272) AND (BA 253 OR MATH 201 OR PSYC 241)

ECON 364 Macroeconomic Theory 4
A course that examines the economy as a whole. Included are an analysis of national income accounting, consumption, investment, government spending, the level of employment, monetary theory, monetary and fiscal policy and international economic policy. (4-0)
Prerequisites: ECON 266 OR (ECON 262 AND ECON 272)

ECON 369 Public Sector Economics 4
Application of economic theory to the study of non-market (political) decision making. An analysis of the types, incidences, and consequences of taxation; government expenditures and borrowing and their economic effects. (4-0)
Prerequisites: ECON 266 OR ECON 262

ECON 370 Topics in International Econ 1-6
An examination of selected topics in the area of international economics. Students may take this course one or more times provided the subject is different on each occasion.
Prerequisites: ECON 266 OR (ECON 262 AND ECON 272)

ECON 371 International Economics 4
Topics include the determinants of international trade patterns, gains from trade, the political economy of trade policy, and factor movements. Topics in international finance include systems of foreign exchange, capital flows, balance of payments, national income, and balance of payments. (4-0)
Prerequisites: ECON 266 OR (ECON 262 AND ECON 272)

ECON 382 Money/Financial Institutions 4
Topics include the determination and role of interest rates, the organization and operation of the banking firm, the goals, implementation, and evaluation of monetary policy in an open economy, and exchange rate determination. Particular emphasis on the importance of financial markets in determining interest and exchange rates, bank behavior, and monetary policy. (4-0)
Prerequisites: ECON 266 OR ECON 272

ECON 499 Independent Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

EDUCATION

ED 200 Intro to Education in America 4
A study of the history, role and governance of education in the United States, the role of schools in our society, the role of society in our schools and basic foundations in educational thought. Students are introduced to basic methods and planning strategies. The course is prerequisite to acceptance into the Teacher Education licensure program and includes a minimum of thirty hours of field study. Field study will focus on the "career exploration" theme of the course, exposing students to the breadth of organizations, roles and functions involved with the concept of schooling. This course requires 30 field study hours. (3-2)

ED 210 Culture of Childhood & Youth 4
This course examines the experience of children and youth in America in the 21st Century and in American schools. It will explore the behaviors, beliefs and influences of childhood and adolescence as young people mature into adulthood. Of prime importance are influences such as health care, nutrition, infectious disease, substance abuse, family influence, educational opportunity, social and ethnic status, juvenile justice, popular culture and access to technology. The course requires a minimum of 30 hours of field study. (2-2)

ED 222 GSS3 Education: Global Perspectives 3
Students in this course will study the social, philosophical, cultural, and intellectual foundations of "schooling" and "education" as they have evolved over time. Students will engage in research, discussions, and classroom activities that are directly related to American and international education. Students will write and critically think about topics related to education practice in this culturally diverse world. (3-0)

ED 289 Practicum in College Teaching 1-3
Students establish a mentor relationship with a Fort Lewis College faculty member and assist in teaching a course. At least 30 hours of work are required for each credit. All work must be carefully monitored and discussed with the mentor.

ED 299 Individual Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

ED 317 Prof Wrtg & Editing for Educat 3
A course designed to teach writing and editing techniques common to the field of education. Through individual and collaborative activities, students explore philosophical issues related to their future roles in the field. Emphasis is placed on effective communication and critical thinking activities. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2)

- ED 322 **Foundations of Teaching** 4
This course provides a foundation for the core teacher education courses. Topics addressed include theories and models of learning, assessment and instructional design. Participants complete: 1) learning model maps, 2) objective and performance assessment instruments, 3) lesson plans, and 4) unit outline. 30 hours of classroom observational labs in area schools. (3-2)
- ED 327 **Children's Literature** 3
A study of all types of literature for children, development of criteria for evaluating books and methods of creating in children a love of good books through a sound literature program for early childhood and elementary schools. (3-0)
- ED 328 **Children's Lit Field Practicum** 1
This practicum accompanies Ed 327: Children's Literature. It provides the basis for students in Children's Literature to apply the literacy concepts they are studying, such as drama, puppetry, book production, and storytelling. 30 hours of practicum in a field setting. (0-2)
- ED 329 **Family and Community Relations** 2
The purpose of this course is to recognize that teachers and families are partners in the educational enterprise, and to establish the means for connections between home and school. Impact of the socio-cultural environment beyond school will be examined through a focus on community. Effective communication techniques, relationship-building strategies, and resources supporting children and families will be addressed. (2-0)
- ED 330 **Human Relations in Classroom** 3
Designed to increase teacher effectiveness in the realm of interpersonal relations and group dynamics; analysis of individual and group behavior in a classroom setting; theoretical concepts and skill training in classroom management. (3-0)
- ED 331 **Southwest Minority Child Classroom** 3
Course is designed to provide a systematic analysis of the forces that shape the behavior of the Native American, Hispanic and other minority children in an educational setting. Major emphasis will be placed on the development of an understanding of the differences in culture, value systems, attitudes and feelings of these minority students as they relate to the education system. The goal is a change in teacher behavior given adequate information to reflect upon education from the minority perspective. (3-0)
- ED 332 **Materials & Methods Bilingual Ed** 3
This course covers specialized methodology and materials to empower teachers to serve the needs of linguistically different students in bilingual settings. Current methods for teaching cognitive areas in other languages and English as a second language are covered. Students make specialized materials to meet future classroom needs. Some facility in a non-English language is expected. (3-0)
- ED 333 **SW Lang Immersion for Teachers** 1-3
Language immersion is designed for prospective teachers who may encounter Native American languages and/or southwest Spanish dialects in the school community. It provides the student with basic oral skills in the languages and the respective course is taught almost entirely in the target language. Students may enroll for one, two or all of the courses for a total of 3 credits.
- ED 334 **Methods of Teach English as Sec Lang** 3
This course is designed to provide specialized techniques and materials to appropriately teach students whose first language is not English, either in special programs or in the regular classroom. Diagnosis of need and reflective prescription are emphasized. Students make materials fitting their ESL teaching goals. (3-0)
- ED 335 **Linguistics for Educators** 3
This course is designed for teachers, particularly bilingual and ESL teachers, who need to convert the science of language to practical classroom application. The student will become familiar with the three types of grammar, will explore how language is learned and will apply the science to reading, writing, spelling, vocabulary and grammar instruction. Further, the student will explore the phenomenon of dialect and improve personal language skills. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2)
- ED 350 **Principles of Peer Education** 1-3
This course introduces students to principles and practices of peer education.
- ED 353 **Growth & Dev of Young Child** 3
A critical study of the whole child (the physical, emotional, cognitive and social development) conception through early childhood. A special emphasis is placed on analyzing developmental stages as they relate to children in the school setting. This course requires 15 hours of field study; 7.5 of those hours will be completed during scheduled class time. (2-1)
- ED 377 **Technology in Education** 2
This course requires demonstration of proficiency with professional productivity tools including word processing, spreadsheet, database and graphics. Elective workshops on each topic are conducted. This course includes examples of instructional technology and emerging technologies. Students demonstrating required proficiencies are awarded a certificate. (2-0)
- ED 421 **Individual Instruct/Plural Soc** 6
This course focuses on teaching in America's ever-increasing pluralistic society. Emphasis is placed upon learning to honor, understand and celebrate gender, ethnic, linguistic, socioeconomic, physical, intellectual and emotional differences among students. Students examine theory, instructional practice and classroom management proven successful in educating students from diverse settings with unique needs. Sixty hours of field study are required for this course, 30 of which will be during the scheduled class time. (4-4)
- ED 423 **Language Arts, Music, Art, Movement** 4
Students will create a literature-based thematic unit integrating art, music, and movement. Unit goals will be selected to support Colorado Model Content Standards (K-12), Colorado Building Blocks (birth-5 years) and local school districts' goals. Students are encouraged to use multiple teaching strategies to integrate the arts with the language arts. (3-2)
- ED 424 **Teaching Language & Math 7-12** 4
This course is designed to provide future secondary school teachers with the skills to integrate reading, writing and math within their secondary discipline. Students will refine lessons and units in preparation for student teaching. Field placements will emphasize observations and teaching assignments related to subsequent student teaching requirements. 30 hours of observational lab in area schools. (2-2)
- ED 425 **Teaching Science P-6** 4
This course prepares future preschool and elementary teachers to design, implement and assess exciting and challenging science lessons. This course focuses on critical thinking, problem solving, inquiry, constructivism, technology, and reflective practice appropriate for developing children's science knowledge from birth through sixth grade. The culminating activity will be a well-developed unit plan for implementation in a school setting. (4-0)

- ED 426 **Math& Soc Stds Meth Elem Teach** 4
This course focuses on the use of the Colorado Performance Based Standards for Teachers as well as Colorado Content Standards as they apply to teaching mathematics and social studies in an elementary school setting. Students will plan, implement and assess mathematics and social studies lessons in an elementary school setting. This course has 30 hours of required field study. (3-2)
- ED 427 **Teaching Language Arts P-6** 4
This course prepares future preschool and elementary teachers to design, implement and assess lessons in the language arts curriculum appropriate for developing children's literacy from birth through sixth grade. Focus is on the traditional language arts of reading, writing, speaking, and listening. A strong knowledge of the phonics and grammar concepts taught in ED 335 essential. (4-0)
Prerequisites: ED 335
- ED 428 **P-6 School Immersion I** 2
This field-based practicum provides students with the opportunity to apply and assess the cultural and literacy concepts being studied concurrently and gained earlier in the 300-level literacy courses, including strategies for teaching linguistically diverse students. 126 hours of practica in area schools. (0-4)
- ED 435 **Teaching Mathematics P-6** 3
This course prepares future preschool and elementary teachers to reach every child, from birth through sixth grade, with rigorous and innovative instructional practices as they relate to mathematic instruction. This course includes the teaching of number systems and number sense, geometry, measurement, statistics and probability, and functions and use of variables. (3-0)
- ED 437 **Teach Art/Music/Movement P-6** 3
Students will gain essential content knowledge in the areas of art, music, and exercise science through activities and instruction designed to enhance creativity and expression in the P-6 classroom. These techniques can be used in a cross-curricular fashion and/or in settings where there is not a designated specialist in art, music, or P.E. (3-0)
- ED 438 **P-6 School Immersion II** 3
This field-based practicum provides students with the opportunity to apply and assess the math, science, and social studies concepts they are studying in this second block and to adapt instruction for students with exceptional and diverse needs. 224 hours of field study. (0-6)
- ED 444 **Secondary Teaching Methods** 3
This course provides future secondary school teachers with an overview of content specific instructional methods and assessments as related to Colorado Model Content Standards. Students will complete a variety of products that will be integrated into their final professional teacher portfolio. 30 hours of observational lab in area schools. (2-2)
Prerequisites: ED 322
- ED 445 **Teaching Social Studies P-6** 3
This course prepares future preschool and elementary teachers, through cultural and social competence methodologies, to creatively instruct children from birth through sixth grade in a noticeably changing national and global community. This course provides an in-depth study of the various elements of social studies including history, geography, civics, economics, as they relate to culture. (3-0)
Prerequisites: ED 322
- ED 447 **Instructional Equality** 3
Future teachers will actively engage in the systematic exploration of participatory and multicultural education. Students in this course will develop their perspectives along a continuum of increased cultural and social awareness. Emphasis in this course is on developing each future teacher's cultural competency so they can foster a classroom environment that is egalitarian and collaborative in nature. (3-0)
- ED 448 **Instructional Equality Lab** 1
This practicum accompanies ED 447 and provides students with the opportunity to observe and to interact with children and adolescents through the varied cultural lenses present in contemporary classrooms. 30 hours of observational lab in area schools. (0-2)
- ED 453 **Cognitive Skills** 4
A critical evaluation of teaching strategies for integrating mathematics, social studies and science in early childhood classrooms. Learning experiences and materials are designed to develop sensory awareness as Piagetian theory of cognitive development is analyzed. Students become familiar with activities such as cooperative learning, thematic unit planning, direct teaching, Piaget's teaching-learning cycle and the integrated teaching approach. This course requires 30 hours of field study; 15 of these hours will be completed during scheduled class time. Admission to Teacher Education program required. (3-2)
Prerequisites: MATH 215
- ED 456 **Early Childhood Administration** 3
An analysis and evaluation of current educational programs for young children as well as emphasis on development of skills to develop programs commensurate with the needs of children, curriculum, staffing, administration and more. Also explores important and complex roles of parents in the educational development of young children. Assists prospective teachers in developing skills to aid parents in guiding their children. Community resources and services are included. This course requires 15 hours of field study, 7.5 of which will be completed during class time. Admission to the Teacher Education program is required. (2-1)
- ED 459 **Nutrition, Health, Safety Young Children** 3
The focus of this course is the nutrition and health of children through providing adequate, appropriate and appealing meals and snacks in group settings. The course includes a study of Colorado Department of Social Services licensing requirements, special nutritional needs, food inventories and planning a nutrition program (birth-8 years). In addition, safety needs and common safety issues for young children will be explored. This course requires 15 hours of field study, 7.5 of which will be completed during scheduled course time. (2-1)
- ED 465 **Managing Diverse Classrooms I** 3
This course will provide future preschool, elementary, and secondary teachers with the latest research and practices in identifying and adapting instruction for students with exceptional and diverse needs in the regular classroom. Students will analyze theories and practices in organizing and managing diverse classrooms. (3-0)
- ED 468 **Managing Diverse Class I Lab** 1
This field-based practicum accompanies ED 465 and provides students with the opportunity to practice planning and implementing instruction for students with exceptional and diverse needs in the regular classroom. 30 hours of observational lab in area schools. (0-2)
- ED 475 **Managing Diverse Classrooms II** 3
This course is a continuation of the concepts presented in ED 465 Managing Diverse Classrooms I. Its focus will be on interactive and collaborative processes for designing instruction for the diversity found in today's classroom. (3-0)
- ED 478 **Managing Diverse Class II Lab** 1
This field-based practicum accompanies ED 475 and provides students with the opportunity to practice planning and implementing instruction for students with exceptional and diverse needs in the regular classroom. 30 hours of observational lab in area schools. (0-2)

ED 488 **Seminar & Pract College Teach** 2-3
A course designed for students in all academic disciplines who are interested in gaining knowledge and experience in teaching at the college level, especially students planning to attend graduate school with a teaching assistantship. The seminar portion of the course includes discussion of such topics as: learner/student characteristics, characteristics of good teaching, course outline of syllabus, lesson planning, goals and objectives, teaching techniques and methods, instructional aids, testing and grading. The practicum portion of the course consists of a mentor relationship with a Fort Lewis College faculty member in which the student arranges to assist the instructor with a course in his/her academic discipline. The student spends a minimum of 40 hours during the term working with the instructor in all aspects of that course. Repeatable once with consent of instructor.

ED 489 **Adv Practicum in College Teach** 1-3
Students establish a mentor relationship with a Fort Lewis College faculty member and assist in teaching a course. At least 30 hours of work are required for each credit. All work must be carefully monitored and discussed with the mentor.
Prerequisites: ED 289 OR ED 488

ED 490 **Advanced Topics in Education** 1-3
Designed to accommodate the needs or requests of school systems, teachers or Fort Lewis College students who seek credit for topics of immediate concern. Course topic will be one not normally or regularly available through another course offering.

ED 492 **K-Primary School, Lab Exp** 15
Includes observation, participation, teaching and allied activities under the direction of a selected, regular teacher in an elementary school in consultation with college consultants. Periodic seminars are offered.

ED 494 **Student Teaching Elementary** 6-15
This field-based practicum provides future K-12 teachers with the opportunity to apply concepts they have studied in their entire curriculum by designing and implementing instruction in an elementary school setting that meets the Colorado Model Standards for Teachers. Students work under the direction of a classroom cooperating teacher and a college supervisor. Periodic seminars are offered.

ED 495 **Student Teaching Secondary** 6-15
This field-based course provides future K-12 and 7-12 teachers with the opportunity to apply concepts they have studied in their entire curriculum by designing and implementing instruction in a secondary school setting that meets the Colorado Model Standards for Teachers. Students work under the direction of a classroom cooperating teacher and a college supervisor. Periodic seminars are offered.

ED 496 **Senior Seminar in Education** 2
This course is a culminating experience for the Interdisciplinary Studies major. There is a strong focus on critical reading and thinking, problem solving, and the written expression of ideas. Senior projects will explore educational issues impacting teaching practices. They may involve research, assessment of existing programs in the field-based setting, policy reviews, and proposals for action or traditional papers. (2-0)

ED 498 **P-6 School Immersion III** 10
This course provides students with the opportunity to apply concepts they have studied in courses taken over their entire curriculum, by designing and implementing instruction that meets the Colorado Model Standards for Teachers. 480 hours of practicum. (0-20)

ED 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

EDUCATION FOR GLOBAL CITIZENSHIP

To be eligible for registration in EGC courses, students must have Junior standing, and have completed either a GCO2 course or Comp 150 (or equivalent) and Lib 150.

EGC 300 EGC2 **Global Citizen Experiential Ed** 3
Students who participate in an International Programs Study Abroad experience may prepare a portfolio showing how they met the learning outcomes for the EGC requirement through that experience. This course is only offered through the credit-by-exam process.

EGC 301 EGC1 **Will of the People** 3
This course examines the dynamic tension between groups of individuals and collective society. Various distinct populations emerge within an otherwise homogeneous majority. These minority populations practice and attempt to retain their distinct cultural heritage, but are met with resistance. To protect these groups, the right to self-determination is established in international law. But can the international community protect this right? Note: This course is the same as TS2S 413; credit will only be given for one of these courses. (3-0)

EGC 302 EGC1 **Global Fire** 4
This course will examine fire from a cultural, ecological, political, and management perspective and how these perspectives vary globally. It will introduce basic fire science principles and incorporate these principles into the diverse ecosystems across the globe. This course will also examine how fire is related to other global environmental issues such as carbon cycling, global warming, and biodiversity protection. Note: This course is the same as TS2N 410; credit will only be given for one of these courses. (4-0)

EGC 303 EGC1 **Representations & Power** 4
This course examines from multiple disciplinary perspectives the relationships between global power inequalities and cultural representations as found, for example, in media reports, museums, National Geographic, films, tourist experiences, and photographs. Students critically examine commonplace assertions about global cultural differences in order to become better global citizens through work, travel, and educational endeavors throughout life. Note: This course is the same as TS2R 407; credit will only be given for one of these courses. (4-0)

EGC 304 EGC1 **Imperialism, Indigenous People** 3
A systematic analysis of the impact of Imperialism upon the cultures and ecologies of the Americas. The focus is upon the colonial strategies of Spain, Portugal, England, and later the United States and their imprint upon cultural, political, economic, and ecological systems. Note: This course is the same as TS2S 411; credit will only be given for one of these courses. (3-0)

EGC 305 EGC1 **Control of Nature** 3
Natural processes such as floods and landslides become disasters when they affect humans. Modern engineering techniques designed to manage natural disasters change the environment and human attitudes, and can cause more problems than they solve. This course will use case studies to discuss whether natural hazards can or should be controlled. Note: This course is the same as TS2N 411; credit will only be given for one of these courses.(3-0)

EGC 306 EGC1 **Culture Clash** 4
What's behind today's competing civilizations--China, India, Russia, Japan, Islam, the West? This course begins with provocative theories about global society, examines the fundamental impact of major figures and philosophies (Confucius, Mohammed, Jesus Christ, Buddha, Greek philosophy, British empiricism), and explores controversial, dangerous questions about nations, nationalities, world-views, and the eruption of culture clash. Note: This course is the same as TS2R 417; credit will only be given for one of these courses. (4-0)

EGC 307 EGC1 **Challenges of Global Literacy** 3
This course examines the interactions between multiple literacies and their normative power in global society. Literacy is embedded in and is produced by the global interaction of social, cultural, political, and economic systems. A wide-ranging and flexible array of essays will support students in their independent research on some aspect of global literacy. Note: This course is the same as TS2S 401; credit will only be given for one of these courses. (3-0)

EGC 308 EGC1 **Global Christianity** 3
Global Christianity examines the variety of ways Christian people have understood and lived out their faith in God as Christian communities interacted with a multitude of cultures and social environments from Antiquity to the present. This course will necessarily touch on the civilizations of the Middle East, Africa, Asia, the Americas, and Europe. Note: This course is the same as TS2R 418; credit will only be given for one of these courses. (3-0)

EGC 309 EGC1 **Spirit of Adventure** 4
Adventure is linked to gender, nationalism, hypermasculinity, racism. Contemporary adventure is also tied to advertising, tourism, and commodity. The course critically compares adventure historically and cross-culturally, and examines contemporary assumptions of adventure. There is a focus on literary and filmic representations of adventurers and how adventure phenomena offer a compelling frame for understanding processes of globalization. Note: This course is the same as TS2R 403; credit will only be given for one of these courses. (4-0)

ENGLISH

ENGL 116 GAH2 **Introduction Mass Communications** 4
An examination of the ways that mass media, in its multiple forms, helps to define reality and shape our social and political knowledge of the world--as well as the ways that we as consumers and creators of mass media help to shape its content and reality. This course covers important current issues as well as provides a historical overview of mass communication. (4-0)

ENGL 128 GAH2 **The Bible as Literature** 4
A study of both the Old and New Testaments of the Christian Bible, as literature itself and as a major influence upon literature. Course will cover mythological, historical, archaeological, and cultural contexts and backgrounds. The course takes no doctrinal position, and doctrinal debates are only appropriate as explorations of the manifold interpretive possibilities of the text. (4-0)

ENGL 174 GAH2 **African-American Literature** 4
A study of selected 19th and 20th century works by African-American writers. (4-0)

ENGL 175 GAH2 **Women's Literature** 4
A study of literature by and about women. (4-0)

ENGL 176 GAH2 **Native American Literature** 4
This course is a survey of the contribution of Native American writers to American literature. Students will study Native writers within historic contexts and tribal worldviews. (4-0)

ENGL 177 GAH2 **U.S. Latina/o Literature** 4
This course introduces students to the literatures of the three major Latina/o groups residing in the U.S. (Cubans, Chicana/os, and Puerto Ricans). Not intended to be exhaustive, the course acquaints students with major writers, movements, and historic contexts. (4-0)

ENGL 180 GAH2 **Literature of the Environment** 4
This course is a survey of environmental literature that focuses on North America. This course includes both global and local (South-western) perspectives. It is designed to further students' understanding of the principles of interconnectedness and sustainability and how those principles have been presented both historically and in literature. (4-0)

ENGL 215 **News Media Writing** 4
This course will cover news writing and reporting for print media. The course will address interviewing, ethics and law. Analysis and story types are often part of this course. (4-0)

ENGL 217 GAH1 **Media Literacy** 4
The course will help students develop media literacy, skills that will help them critically consume and create media. (4-0)

ENGL 221 GAH2 **Classical Literature** 4
A study of ancient Greek (Hellenic) and Roman (Italic) literature and at least one of the following ancient literatures: Germanic, Celtic, Balto-Slavic, Indo-Iranian, or Albanian. (4-0)

ENGL 230 GAH2 **Survey of British Literature** 4
An overview of representative British writing from its beginnings to the present. (4-0)

ENGL 240 GAH2 **Survey of American Lit** 4
An overview of representative American writing from its beginnings to the present. (4-0)

ENGL 250 **Practicum - Newspaper** 1-6
Directed experience for lower-division students in newspaper work on the Fort Lewis College Independent. Credit is based on the ratio of 30 hours of work for each credit earned. English 250 is repeatable for a maximum of 6 credits. Consent of instructor is required.

ENGL 251 **Practicum - Radio** 1-6
Directed experience for lower-division students in radio broadcasting on KDUR. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will supervise and evaluate their work. Engl 251 is repeatable for a maximum of 6 credits. Consent of the instructor is required, and there is an additional fee for the course.

ENGL 258 **Practicum - Service Learning** 1-6
Directed experience for lower-division students in service learning with placements in local schools or community organizations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor and evaluate their work. Engl 258 is repeatable for a maximum of 6 credits. Consent of the instructor is required.

ENGL 265 GAH2 **Semantics** 4
A study of the meaning of language, emphasizing its social and psychological uses and abuses. (4-0)

ENGL 267 **Persuasive Writing** 4
An introduction to the basic principles of writing persuasively, with an emphasis on invention, organization, style, and presentation. (4-0)

ENGL 268 GCO2 **Reading Texts/Writing Texts** 4
This course, which includes a brief introduction to the Western rhetorical tradition, as well as an exploration of various forms of textual and critical analysis, introduces students to ways in which reading and writing are used in literary and media studies. (4-0)
Prerequisites: COMP 150 OR COMP 126

ENGL 270 GAH2 **History of the Film** 4
An overview of the history of international and Hollywood narrative films. Students will be expected to attend scheduled film screenings each week. (4-0)

ENGL 273 **Intro to Literary Types** 2
This course will focus on a type or genre of literature, such as poetry, fiction, the short story or the essay. Students may repeat the course for credit provided the subject is different on each occasion. (2-0)

ENGL 280 GAH2	Literature of the Southwest	4	ENGL 346	American Literature: Topics II	4
The American Southwest seen through fiction, poetry, biography and other works by European Americans, Native Americans and Chicanos/as. (4-0)			An in-depth study of selected American writings from 1865 to the present. Course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion. (4-0)		
ENGL 299	Individual Study	1-6	ENGL 350	Practicum - Newspaper	1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.			Directed experience for upper-division students in newspaper work on the Fort Lewis College Independent. Credit is based on the ratio of 30 hours of work for each credit earned. English 350 is repeatable for a maximum of 12 credits. Consent of the instructor is required.		
ENGL 304	Digital Video Production	4	ENGL 351	Practicum - Radio	1-6
Students will learn the technical aspects, conventions, and aesthetics of digital video production. Consent of the instructor is required, and there is an additional fee for the course. (4-0)			Directed experience for upper-division students in radio broadcasting on KDUR. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will supervise and evaluate their work. English 351 is repeatable for a maximum of 12 credits. Consent of the instructor is required.		
ENGL 308	Interactive Media Production	4	ENGL 358	Practicum - Service Learning	1-6
Students will produce interactive fiction and nonfiction media projects integrating graphic design, text, photos, slide shows, audio, and video. Instructor permission required; there is an additional fee for this course. (4-0)			Directed experience for upper-division students in service learning with placements in local schools or community organizations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by the professor who will assign, monitor and evaluate their work. Engl 358 is repeatable for a maximum of 12 credits. Consent of the instructor is required.		
ENGL 315	Media Writing: Topics	4	ENGL 363	Advanced Composition	4
This course should be considered an advanced writing course that builds on the writing students have been exposed to in 215 and may have been exposed to in 304, 306 and the practica. Topics will include, but are not restricted to, magazine writing/long-form journalism, editorial writing and screenplay writing. Students may repeat the course for credit provided the subject is different on each occasion. (4-0)			A course focused on writing scholarly, non-fiction prose, with an emphasis on research, form, and style. (4-0)		
ENGL 315A	Media Wrtg: Creative Nonfiction	4	ENGL 366	Teaching Writing	4
This course should be considered an advanced writing course that builds on the writing students have been exposed to in 215 and may have been exposed to in 304, 306 and the practica. Topics will be restricted to creative non-fiction. (4-0)			An introduction to teaching writing at the secondary level. Includes a review of the history of writing instruction and current practices. (4-0)		
ENGL 317	Mass Communications: Topics	4	ENGL 378	Young Adult Literature	4
This course teaches students at an advanced level fundamental elements of the industries (including academe) attached to the discipline. This course will treat in some depth a topic essential to communication students. Topics will include, but are not restricted to, stereotyping in the media and media law and ethics. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)			This course is a study of all types of literature for adolescents and young adults. Evaluative criteria for book selection will be considered. Emphasis on minority and ethnic literature. (4-0)		
ENGL 320	The Novel	4	ENGL 380	Native American Lit: Topics	4
An in-depth study of selected European, British and American novels. (4-0) Prerequisites:			A study of traditional and contemporary Native American expression as seen through oration, tales and legends, chants and songs, poetry, drama, autobiography, and the novel. Course content will vary. Students may repeat this course for credit, provided the subject is different on each occasion. Note: This course is the same as SW 380; credit will be given for only one of these courses. (4-0)		
ENGL 340	19th Cen British Lit: Topics	4	ENGL 404	Advanced Media Production	4
An in-depth study of British literature from the Romantic and/or Victorian periods. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)			Students will concentrate on a particular media production topic that will vary from semester to semester. Topics may include advanced areas of digital video production (such as cinematography and editing), game design, interactive web design, convergent media storytelling, documentary, streaming news production, and more. This course is repeatable up to 3 times. Instructor permission required, and there is an additional fee for this course. (4-0) Prerequisites: ENGL 304 OR ENGL 308		
ENGL 341	Early Modern Literature: Topics	4	ENGL 416	Media Theory and Criticism	4
An in-depth study of selected British writings from the Early Modern Period. Course content will vary. Students may repeat the course for credit provided the subject is different on each occasion. (4-0)			This course is designed to acquaint students with the major contemporary theories of mass communication; students will also become acquainted with critical theory and primary texts. (4-0)		
ENGL 345	American Literature: Topics I	4	ENGL 417	Media Theory: Topics	4
An in-depth study of selected American writings from the beginnings to about 1865. Course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion. (4-0)			Using the topic as a vehicle, this course will expand on and develop a theoretical tradition. Students will apply their understanding of the tradition in research projects. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)		

- ENGL 420 **World Literature: Topics** 4
An in-depth study of selected world literature. Course content will vary and may include biblical, classical, or national literatures. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 423 **Genres: Topics** 4
An in-depth study of a specific genre of literature. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 424 **Comparative Literature: Topics** 4
A comparative study of literature. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 430 **Medieval Lit & Chaucer: Topics** 4
An in-depth study of selected British writings from the beginnings to about 1500. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 432 **Shakespeare** 4
A study of Shakespearean drama. (4-0)
- ENGL 450 **Internship in Newspaper** 1-6
Directed experience working on newspapers, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving written goals. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of the instructor is required.
- ENGL 451 **Internship in Radio** 1-6
Directed experience working at radio stations, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving written goals. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of the instructor is required.
- ENGL 452 **Internship in Television** 1-6
Directed experience working in television, performing professional duties and responsibilities. Specific requirements will vary but include, as a minimum, keeping a detailed journal and writing a 15-page paper analyzing the organization and what the student learned. A minimum of 100 hours of directed experience must be documented, but interns usually work to complete tasks. Credit and evaluation are normally based on achieving the goals in a written contract signed by the student, the supervisor and the practicum instructor, on the journal and on the analytical paper. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of the instructor is required.
- ENGL 453 **Internship in Communications** 1-6
Directed experience in media writing/production that does not directly involve newspaper, radio or television. The internship will be described in ways appropriate to the work, such as "Public Relations," "World Wide Web," "Advertising," "Layout and Design," "Magazine," "Newsletter," and "Video Production." Credit and evaluation are based on achieving the goals in a written contract signed by the student, the supervisor and the practicum instructor, on a journal documenting at least 100 hours of directed experience and on a 15-page analytical paper. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements. Consent of the instructor is required.
- ENGL 461 **History of English Language** 4
An examination of the dramatic ways in which the English language has changed over the past 1500 years, from its origins as an obscure Germanic dialect to its present state as a distinct, global language spoken by hundreds of millions of people. (4-0)
- ENGL 462 **Linguistics** 4
An introduction to the study of language, covering the many systems - from sounds to words to sentences to discourse - working in language. While the focus will be on English, those features shared by all languages will be emphasized. (4-0)
- ENGL 464 **Creative Writing** 4
An advanced writing course with concentrations in poetry and/or short fiction. Students may repeat the course for credit, but may apply it only once toward the major. Consent of the instructor is required. (4-0)
- ENGL 477 **20th Cen Literature: Topics** 4
An analysis of selected European, British or American writings from the 20th century. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 483 **Meth & Mat for HS English** 4
Introduces and expands on materials and methods for teaching literature, language and composition in the secondary schools. Includes principles for the selection of literature for high school students and the relationship of language and composition to the total secondary program. Teaching techniques are a point of emphasis. To be taken in the fall trimester, prior to student teaching. Senior standing required. (4-0)
- ENGL 496 **Senior Seminar** 4
Advanced study and research in selected topics. Students enrolling in Engl 496 must have completed at least one survey course and at least one topics course, and any CO-2 course. Consent of the instructor is required. (4-0)
- ENGL 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

ENGINEERING

- ENGR 101 **Introduction to Engineering** 1
Explore the engineering profession by discussing the different types of engineering, engineering duties and the job market. Complete several simple hands-on design and analysis projects. Discuss what is required for a student to get a degree in engineering and how to achieve this goal. (1-0)

ENGR 103 Computer Aided Drafting 3
A basic course in engineering graphics, including three dimensional modeling, geometric constructions, topics in technical graphics, and elementary descriptive geometry. (3-0)

ENGR 104 Comp Prog For Sci & Engr 3
Introduction to programming, problem-solving methods, algorithm development, program design, debugging, documentation and computer solution to mathematical/ engineering problems. (3-0)
Prerequisites: MATH 121 OR MATH 221

ENGR 105 Engineering Principles & Design 3
Solution of fundamental engineering and design problems. Topics include numerical mathematics, engineering statistics, computer applications, problem-solving and design projects. (3-0)
Prerequisites: ENGR 104

ENGR 201 Electric Networks I 4
An introduction to engineering circuit analysis. Topics include the study of linear circuit elements (resistors, capacitors, inductors, operational amplifiers), linear circuits, Kirchoff's laws, methods of analysis, RL, RC and RLC circuits, phasors, sinusoidal steady state response, average value RMS values and power in AC circuits. (4-0)
Prerequisites: MATH 222

ENGR 202 Electric Networks II 4
Topics include polyphase circuits, complex frequency and frequency response of linear networks, magnetically coupled circuits, two-port networks, Fourier analysis, Laplace transform techniques, operational amplifiers. Includes engineering design applications. (3-2)
Prerequisites: ENGR 201

ENGR 205 Surveying I 4
Plane surveying methods in engineering that emphasize the measurements, theory and calculations associated with distance and angle measurements. Modern electronic equipment including total stations and Global Positioning Systems are used. Topics include distance measurement, leveling, traversing, topographic mapping, error analysis and others. (2-4)
Prerequisites: MATH 121

ENGR 217 Statics 3
Vectors, forces and moments. Static equilibrium of particles and rigid bodies. Trusses, frames and machines. Internal forces, shear and bending moment diagrams. Centroids, moment of inertia, friction and virtual work. Includes engineering design applications. (3-0)
Prerequisites: MATH 221

ENGR 221 Dynamics 3
Kinematics and kinetics of particles and rigid bodies. Includes the applications of Newton's laws, work-energy and impulse-momentum and their applications to determine the motion of rigid bodies in two and three dimensions. (3-0)
Prerequisites: ENGR 217

ENGR 238 Digital Logic Design 4
Introduction to the building blocks of digital computer design. Application of Boolean algebra to the synthesis of logic circuits from logic elements. The design and implementation of combinational and sequential circuits. Understanding of hardware operations in a simple computer. This course is the same as CSIS 238; credit will only be given for one of these courses. Includes engineering design applications. (3-3)
Prerequisites: ENGR 104 OR CSIS 110

ENGR 270 Engineering Thermodynamics 3
Fundamental concepts and basic theory of classical thermodynamics including study of the first and second laws of thermodynamics, properties of pure substances, thermodynamic states and functions, applications to engineering. (3-0)
Prerequisites: PHYS 217

ENGR 299 Individual Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

ENGR 305 Surveying II 4
Stresses the application of surveying techniques and theory to topics that include mapping and map projections, the Global Positioning System, Geographic Information Systems, boundary surveys, the Public Land Survey system, coordinate systems and control surveys, photogrammetry, astronomic observations and route surveys. Includes engineering design applications. (2-4)
Prerequisites: ENGR 205

ENGR 317 Mechanics of Materials 3
Stresses and deformations in structural members and machine elements, combined stresses, and stress transformations. Deflection by integration, superpositions, and moment area method. Strain energy concept, impact loading and column design. Includes engineering design applications. (3-0)
Prerequisites: ENGR 217

ENGR 321 Fluid Mechanics 3
Fluid properties, statics, kinematics and kinetics of fluids including gravitational and viscous effects. Differential analysis of fluid motion. Incompressible inviscid flow, dimensional analysis and similitude. Flow measurements, boundary layers, flow about immersed bodies and flow in open channels. Includes engineering design applications. (3-0)
Prerequisites: ENGR 221

ENGR 330 Heat Transfer 3
Fundamental concepts, principles and applications of heat transfer by conduction, free and forced convection, and radiation, including analysis by numerical methods and computer modeling. (3-0)
Prerequisites: ENGR 321 AND MATH 223

ENGR 397 Tech Writing and Engr Projects 3
A course designed to train students in preparing technical documents such as engineering reports, technical descriptions, and proposals in the field of engineering. Subjects such as project management, engineering economics, and statistical analysis are studied and used as writing topics. Modern techniques and software tools are used. This course may not be substituted for Phys 397. (3-0)

ENGR 405 Engineering Design & Practice 3
Students study the engineering design process and complete one or more design projects. The course is intended to show how engineers integrate technical knowledge with design concepts, teamwork, economics, project management, oral and written communications. Ethics and professionalism in engineering are also explored. Students prepare a detailed design project proposal that may be used as their Senior Seminar design project (3-0).
Prerequisites: ENGR 105

ENGR 454 Special Topics in Engineering 3
Special topics in various areas of engineering. The course will address one area such as heat transfer, hydraulics, or control system. The specific topic will be listed on the class schedule. The course can be repeated for up to 6 credits if the topics are different. (3-0)

ENGR 496 Senior Seminar - Design 2
Students experience the integration of technical knowledge through an open-ended, comprehensive design project which simulates an engineering project environment, including design, building or simulations, testing and verifications, project management and oral and written reports. Students are required to take the Fundamentals of Engineering exam (2-0).
Prerequisites: ENGR 405

ENGR 497 **Senior Seminar - Design** 2
Individual research/design project conducted under the supervision of one or more faculty members. The student will present the results in a written report and orally before the department faculty and students. A continuation of ENGR 496. (0-4)
Prerequisites: ENGR 496

ENGR 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

ENVIRONMENTAL STUDIES

ENVS 220 **Symposium in Environmental Studies** 1
Class meetings will involve discussions of local and global environmental issues and approaches to problem solving, with special emphasis on cross-cultural and non-western views. This course will focus on the range of positions that environmental studies majors have in the professional world and include an introduction to potential careers, internships, and research opportunities. (1-0)
Prerequisites: PS 130

ENVS 310 **Community Internship** 3
This course places students with a community organization, public agency or local business to explore firsthand the skills and knowledge required to solve environmental problems. The Environmental Center will assist with student placement. A final report will demonstrate the educational and societal impacts of the internship experience. 150 hours of community-based learning and research is required.
Prerequisites: ENVS 220

ENVS 496 **Senior Seminar** 3
Students will complete an independent research project pertaining to environmental issues. A thesis project will be prepared and a final presentation delivered to a general audience. Students are expected to take this course in their final semester. (3-0)
Prerequisites: GS 495

EXERCISE SCIENCE

ES 100 **Fitness and Wellness** 1
NOTE: ES 100 is NOT approved for guaranteed transfer to other Colorado colleges and universities. A 7 1/2-week course that examines the basic physiological principles of exercise and nutrition. Students will acquire strategies for the developments of a personal fitness plan, effective weight management, stress management and how to make healthy lifestyle choices. (1-0)

ES 150 **Sociocult Foundtn Human Movmnt** 3
An introductory study of the historical, cultural, sociological and philosophical aspects of exercise, sport and human movement. (3-0)

ES 165 **Community First Aid & Safety** 2
Study and practice of American Red Cross first aid/CPR procedures in handling common injuries, accidents and medical emergencies. (2-0)

ES 185 **Intro to Coaching - ASEP** 2
This introductory course is the American Sport Education Program's "Coaching Principles Course." It covers the areas of coaching philosophy, sport psychology, sport pedagogy, sport physiology, sport management and sport-specific planning. The course covers what is important for a coach to know and presents the material in a manner that is of practical value to a coach. A series of videotapes helps create an atmosphere of discussion that gives students practical ways of handling coach/player relationships and situations. The student who passes the ASEP exam will receive certification which is rapidly becoming the required coaching certification. (2-0)

ES 205 **Amer Red Cross Emergency Response** 2
This class will train those individuals who have a duty to respond in emergency situations (first responders) with the knowledge and skills necessary to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until advanced medical help arrives. The course will prepare students to make appropriate decisions about the care to provide in an emergency. (2-0)

ES 220 **Clinical in Athletic Training I** 1
This course is designed to provide the student with an introduction to the clinical aspects of the athletic training profession. The student will observe athletic training in the collegiate setting for a minimum of 75 hours. Students will be instructed in common taping applications, emergency procedures, basic modality applications, and athletic training room management. Instructor permission is required. (2-0)
Prerequisites: ES 224 AND ES 205

ES 223 **Techniques in Conditioning** 1
This course introduces the student to methods and techniques in the area of physical conditioning. This course will emphasize three major areas: power development, speed enhancement, and aerobic/anaerobic conditioning. Emphasis will be placed on the student to instruct in these areas. (2-0)

ES 224 **Basic Principles Athletic Training** 3
An introduction to the field of athletic training. Professional opportunities in this field are discussed. Students will develop a basic understanding of athletic injuries as they relate to prevention, nature and causes. (3-0)

ES 225 **Techniques Coaching Football** 2
Classroom instruction directed toward the various phases of American football; history, defensive theory, strategy, personnel, offensive theory, the kicking game, practice organization, relationship and influence of teachers, parents, booster clubs and news media. (2-0)

ES 227 **Techniques Coaching Basketball** 2
The analysis of the game of basketball in theory and application with special emphasis upon teaching and coaching the game. Development of offense, defense and special situations for both prospective coaches and enthusiasts. (2-0)

ES 229 **Tech Coaching Track & Field** 2
Designed to teach methods, techniques, and principles of coaching all events in track and field at both the high school and college levels. (2-0)

ES 231 **Tech of Coaching Soccer** 2
The study of principles, methods, techniques and strategies involved in coaching soccer. (2-0)

ES 233 **Officiating of Football** 1
Designed to provide individuals with the rules, skills and mechanics of officiating. Includes rules of the National Federation of High Schools, National Association of Intercollegiate Athletics and National Collegiate Athletic Association. (1-0)

ES 235 **Officiating of Basketball** 1
Designed to teach the student the rules, skills and mechanics of officiating basketball. (1-0)

ES 238 **Officiating Soccer** 1
Designed to provide students with the rules, skills and mechanics for officiating soccer. (1-0)

- ES 240 **Clinical in Athletic Training II** 1
This course is designed to provide the student with clinical opportunities to review and evaluate the clinical proficiencies associated with the pre-requisites and co-requisites of this course as required by the National Athletic Trainers' Association. This course includes a 150 hour minimum clinical rotation component to allow for the athletic training student to become proficient in the clinical skills. Student must be accepted into the Athletic Training Education Program and instructor permission is required. (2-0)
Prerequisites: ES 220 AND ES 223 AND ES 224 AND ES 283
- ES 242 GMA1 **Testing and Statistics** 3
Basic statistical procedures necessary to analyze and interpret data collected from tests in exercise science. Descriptive and inferential statistics are taught as well as introduction to basic research techniques. The selection and administration of testing instruments that measure objectives from the three domains of human performance are also examined in the course. (3-0)
Prerequisites: (TRS 92 OR Computed Math Placement MA110)
- ES 243 **Personal Health** 3
This course is a study of personal health and wellness. Every effort will be made to create a practical approach toward developing awareness, education and growth that will allow for enhanced personal wellness. The responsibility for our health and personal well-being belongs to each of us individually. This course will allow students to gain an understanding of how they as individuals fit into a complex system of interconnectedness. Various theories of wellness will be presented to emphasize the importance of balancing the connection of body, mind and spirit for intrapersonal health, interpersonal health, community health and global health. (3-0)
- ES 250 **Tch Comp Tumbling,Aquatic Skis** 1
A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in tumbling, aquatics and fundamental skills. (0-2)
- ES 251 **Tch Comp Dance,Games,Non Trad** 1
A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in dance, recreational games and non-traditional sports. (0-2)
- ES 252 **Tch Comp Bkball,Soc,Softb,Vbal** 1
A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in basketball, soccer, softball and volleyball. (0-2)
- ES 253 **Tch Comp Fitness,Golf,Rac Spts** 1
A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in fitness, golf and racquet sports. (0-2)
- ES 283 **Evaluation of Injuries I** 3
This course will provide the student with the evaluative techniques and skills necessary in the recognition of athletic injuries and an understanding of the mechanism of various athletic injuries involving the lower extremities, lumbar and thoracic spine. (3-0)
Prerequisites: ES 224 AND BIO 233
- ES 285 **Evaluation of Injuries II** 3
This course will provide the student with the evaluative techniques and skills necessary in the recognition of athletic injuries and an understanding of the mechanism of various athletic injuries involving the upper extremities, cervical spine and head. (3-0)
Prerequisites: ES 283
- ES 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- ES 300 **Sport in Film** 2
This course will take a conceptual and sociological look at sport through its films both contemporary and classic. Viewings, discussions, debates, critical reviews and writings will be used to explore the themes, issues and methods used in selected films and the interrelationships of sport, human movement, society and film. (1-2)
- ES 301 **Current Issues in Sport** 3
This course will address critical issues in writing in exercise science using issues in sport as a basis for writing, reading and discussion. Special emphasis is placed on developing skills necessary for becoming successful writers in the field. Instruction and evaluation focuses on the writing of research papers, poster presentations, journal article reviews, laboratory reports, essays and oral presentations. (3-0)
Prerequisites: COMP 150 OR COMP 250 OR COMP 126 OR GS 151 OR FCS 100
- ES 302 **Issues in Health & Well-Being** 3
This course will address issues in writing in exercise science using the topics of Health and Well-Being as a basis for writing, reading and discussion. Students will explore and critically analyze these topics and share their perspectives through discourse mediums used by professionals in the fields of health and Exercise Science, such as research papers, poster presentations, journal article reviews and proposals, computer/video presentations and oral presentations. (3-0)
Prerequisites: COMP 150 OR COMP 126 OR COMP 250 OR GS 151 OR FCS 100
- ES 320 **Clinical in Athl Training III** 1
This course is designed to provide the student with clinical opportunities to review and evaluate the clinical proficiencies associated with the pre-requisites and co-requisites of this course as required by the National Athletic Trainers' Association. This course includes a 150 hour minimum clinical rotation component to allow for the athletic training student to become proficient in the clinical skills. Student must be accepted into the Athletic Training Education Program, and instructor permission is required. (2-0)
Prerequisites: ES 240 AND ES 283 AND ES 285
- ES 335 **Kinesiology & Biomechanics** 4
An in-depth study of the basic body movements, osteology, applied myology, spatial relations of muscles and joints, aggregate muscle action, kinesiological constructs of summation of internal forces, aerodynamics and hydrodynamics, techniques for cinematographical and noncinematographical analysis of sport skills. The study of methods, mechanics and analysis of movement as applied to the structure and function of the human organism will also be discussed. (4-0)
Prerequisites: BIO 121 OR (BIO 233 AND BIO 234)
- ES 337 **Sport Ethics** 3
An inquiry into ethics and morality as these apply to sport physical education. Students will engage in critical and reflective thinking about what values they believe should characterize competitive sports and the professions of athletics and physical education. Students will explore how they will respond to ethical dilemmas in sport and continue to develop their own moral reasoning ability. (3-0)
- ES 339 **Practicum in Sports Admin** 1
The implementation of theories and practices in a professional setting under the direction of a qualified practitioner. Students will participate in a part-time experience in an agency, corporation or other sport-related entity for exposure to various professional areas of employment. Minimum requirement: 50 clock hours. Instructor permission required.
- ES 340 **Motor Learning and Control** 3
Concepts involved in learning motor skills, the individual variables which affect this learning and the practice and techniques for improving motor performance. (3-0)
Prerequisites: PSYC 157

- ES 345 **Legal Aspects of Sports/Phy Ed** 3
This course will introduce the student to legal regulations and issues in sport and physical education. The principles of risk management and the recognition and reduction of potential legal issues and their consequences will be emphasized. (3-0)
Prerequisites: (COMP 150 OR COMP 250 OR COMP 126) AND BA 260
- ES 353 **Nutrition Fitness & Sport** 3
This course is a study of the principles of nutrition as a science with special emphasis on the importance of nutritional decisions for the physically active individual. Metabolism, energy systems, food choices, energy sources, nutritional analysis, body weight and composition, weight management and optimal nutrition for physical performance are topics to be discussed. (3-0)
Prerequisites: BIO 121 OR (BIO 233 AND BIO 234)
- ES 354 **Adapted Exercise** 3
Course includes an overview of the legislation impacting adapted exercise programs; exceptional conditions and disabilities affecting individuals in exercise programs, assessment tests and diagnostic instruments. It includes practical experience in teaching exceptional students in diverse exercise settings and arranging and prescribing a program to meet the needs of students with specific disabilities. (2-2)
- ES 356 **Adapted Aquatics** 3
An overview of the benefits of movement in an aquatic environment, the properties of water, the dynamics of moving in water, as well as aquatic skills, therapy, fitness and games for special populations. Students will gain practical experience in teaching individuals with varying levels of abilities. They will also assess needs, prescribe, design and instruct in an aquatic program to meet the needs of persons with disabilities. Instructor permission is required. (3-0)
- ES 360 **Exercise Physiology** 4
This course deals with the physiological principles underlying specific aspects of physical fitness and human exercise performance. Emphasis is placed on the nature of the metabolic, muscular, cardiovascular and pulmonary responses to various forms of short- and long-term exercise workouts as well as specific adaptations to exercise training. Where possible, the potential health-related aspects of exercise training will be explored. (4-0)
Prerequisites: BIO 121 OR (BIO 233 AND BIO 234)
- ES 361 **Advanced Exercise Physiology** 3
This course is an examination of advanced topics in exercise physiology, lab procedures and clinical protocols. Advanced fitness/diagnostic testing and exercise prescription will be the focus of this course. Topics to be studied include, but are not limited to, environmental extremes and physiological adaptations during exercise protocols for various clinical populations. The development of the exercise prescription for various sub-clinical populations will also be discussed. Each topic will have an accompanying laboratory experience. (2-2)
Prerequisites: ES 360
- ES 363 **Computer Appl in Ex Science** 3
This course is designed to provide students with a general introduction to computer use in Exercise Science including a hands-on experience. Open to Exercise Science majors only. (2-2)
- ES 375 **Sport & Exercise Psychology** 3
A study of psychological phenomena that influence sport and exercise performance, i.e., personality, anxiety, stress, motivation, aggression, group dynamics, concentration, imagery, arousal regulation, self-confidence, leadership, communication, addictive or unhealthy behaviors and aggression. (3-0)
Prerequisites: PSYC 157
- ES 381 **Methods/Curric for K-12 Phy Ed** 4
A course in pedagogy for the entry-level K-12 school physical educator. Emphasis will be placed upon values, curriculum construction, content standards, instructional techniques, professional responsibilities and evaluation as related to teaching through physical activities. (4-0)
- ES 385 **Therapeutic Modalities** 2
The theoretical basis of therapeutic modalities will be explored as well as the clinical application of those modalities in the treatment of athletics injuries. (2-0)
Prerequisites: ES 224 AND ES 283
- ES 387 **Reconditioning Athletic Injuries** 3
Students will examine the theory and physiological basis of rehabilitating athletic injuries. Practical experience in a clinical-type setting will be used to help students develop skills of exercise testing, manual testing, PNF, goniometry and program planning. (3-0)
Prerequisites: ES 285 AND ES 360 AND ES 385
- ES 389 **Coaching Internship** 2
This course satisfies the coaching internship requirement for the Exercise Science Department Coaching minor. It consists of the student securing and completing a coaching position that will consist of 100 hours of work. These hours may include: practices, practice planning, games, travel and any other organizational or related tasks. A supervisor must be involved who can evaluate the student's performance. Instructor permission required.
- ES 420 **Clinical in Athletic Training IV** 1
This course is designed to provide the student with clinical opportunities to review and evaluate the clinical proficiencies associated with the pre-requisites and co-requisites of this course as required by the National Athletic Trainers' Association. This course includes a 150 hour minimum clinical rotation component to allow for the athletic training student to become proficient in the clinical skills. Student must be accepted into the Athletic Training Education program, and instructor permission is required. (2-0)
Prerequisites: ES 320 AND ES 353 AND ES 360 AND ES 375 AND ES 385 AND ES 387
- ES 424 **Advanced Athletic Training** 3
This course deals with the knowledge, skills, and values an athletic trainer must possess in pharmacological applications and general medical conditions, and other advanced athletic training principles. (3-0)
Prerequisites: ES 285 AND ES 385 AND ES 387
- ES 440 **Clinical in Athletic Training V** 1
This course is designed to provide the student with clinical opportunities to review and evaluate the clinical proficiencies associated with the pre/co-requisites of this course as required by the NATA. This course includes a 150 hour minimum clinical rotation component to allow for athletic training students to become proficient in their clinical skills. Student must be accepted into the Athletic Training Education Program, and instructor permission is required.(2-0)
Prerequisites: ES 361 AND ES 363 AND ES 420 AND ES 424 AND ES 480
- ES 450 **Internship Exercise Specialist** 3
Directed clinical experiences performing professional duties in fitness, health promotion, cardiac rehabilitation, clinical exercise technology or leisure organization settings. Specific requirements will depend upon the supervising Fort Lewis College faculty member. The intern's performance will be evaluated by both the organization's supervisor and the assigned faculty member. Instructor permission is required.
- ES 455 **Internship in Sport Admin** 8-12
Full-time application of previous theoretical and applied knowledge and skills in a professional setting, supervised by a qualified sport administrator. Instructor permission required.
Prerequisites: ES 339

ES 480 **Admin Program Exercise Science** 3
Relationships, procedures and problem-solving approaches in effective organization and administration of exercise, fitness and sport programs. Budget, use of facilities and equipment, legal responsibilities, public relations, policy development and supervision are analyzed. (3-0)

ES 495 **Research Design & Development** 1
Studies methods and techniques of research used in Exercise Science and analyzes examples of their use. Students will complete a formal research proposal, participate in a formal proposal hearing and complete Institutional Review Board requirements for student research. Instructor permission required. (1-0)
Prerequisites: (ES 242 OR ES 350)

ES 496 **Senior Sem Research Exercise Sci** 2
Discussions and inquiries dealing with contemporary issues, trends and problems in exercise science. Completion of data collection and synthesis for the senior research project proposed in ES 495. (2-0)
Prerequisites: ES 495

ES 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by a Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

GEOGRAPHY

GEOG 250 **Intro Computer Mapping & GIS** 4
An introduction to basic mapping concepts and technologies using Geographic Information Systems (GIS). Lecture sessions will discuss map use and analysis, principles of mapmaking, cartographic communication and geographic visualization. Lab assignments will focus on map skills and interpretation, the use of Global Positioning Systems (GPS) and map construction using PC-based GIS software. (3-3)

GEOG 271 GSS2 **World Regional Geography** 4
An introduction to the major regions of the world and their physical, environmental, cultural, geopolitical and economic characteristics. This course will provide students with a thorough understanding of current events that are changing the world map and causing the globalization of world society. (4-0)

GEOG 299 **Individual Study** 1-3
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

GEOG 300 **Intermediate GIS: Vector** 3
This course focuses primarily on vector-based GIS analysis and the applications of GIS in the physical sciences, social sciences and business. Lab sessions will introduce students to the use of GIS in spatial querying and database management, site suitability analysis, proximity analysis, geocoding, CAD theme analysis, overlay operations, etc. (2-3)
Prerequisites: GEOG 250

GEOG 320 **The North American Landscape** 3
A study of the physical and cultural landscapes of North America, particularly the United States and Canada. Emphasis is placed on the relationships between the natural and physical environment, land use patterns, resources, economics, geopolitics, populations, and human activities that modify the landscape. Regional field trips and map work required (3-0) Prerequisites:

GEOG 335 **Weather and Climate** 3
An introduction to the atmospheric processes that produce our daily weather patterns and climates. Paleoclimates and potential future climate changes will also be discussed in detail. Special emphasis will be placed on the human impact of severe storms, climatic variations and global warming. (3-0)

GEOG 400 **Advanced GIS: Raster** 3
This course focuses primarily on network analysis and grid-based spatial analysis using GIS. Programming for GIS will also be investigated. Lab sessions will focus on route finding, travel cost analysis, traffic modeling, digital elevation models (DEMs), surface interpolation, hydrologic modeling and watershed analysis. (2-3)
Prerequisites: GEOG 300

GEOG 480 **Internship in GIS** 1-3
Directed work experience using Geographic Information Systems as a major component of the internship project. Minimum requirements are that students complete a term paper, and an oral or poster presentation describing their internship project. Requires at least 150 hours of directed experience.
Prerequisites: GEOG 300

GEOG 499 **Independent Study** 1-3
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

GEOLOGY

GEOL 107 GSC1 **Earth Systems Science** 4
This course explores the solid earth, the oceans and the atmosphere as an integrated set of systems that act together to control climate, topography and other physical aspects of the natural environment. The lab work includes field trips and the study of rocks, minerals, plate tectonics, ocean systems and weather. There is one semester-long independent project in which students apply the scientific method to understand a local environmental issue. (3-3)

GEOL 113 GSC1 **Physical Geology** 4
A look at how the Earth works, with emphasis on the processes that create and control our environment. Laboratory and field work on Earth materials and surface processes. Field trips. (3-3)

GEOL 114 **Historical Geology** 4
The geologic history and coevolution of the Earth and life on Earth. Laboratory work focuses on sedimentary rocks, facies analysis, fossils, and the spectacular outcrops of the Four Corners. Field trips. (3-3)
Prerequisites: GEOL 113 OR GEOL 107

GEOL 150 GSC2 **Geology of the Southwest** 3
A survey of the historical, economic and structural geology and geomorphology of the Southern Rockies, Colorado Plateau and the Basin and Range provinces. Emphasis is on classic geologic areas, national parks, natural resource development and problems associated with human activity in this delicate environment. (3-0)

GEOL 170 GSC2 **Earth Shock** 3
This course focuses on some of the phenomena that give rise to the unpredictable, violent and calamitous events that cause enormous destruction of life and property and shape our view of natural disasters. Major concepts and topics are explored to give a basic understanding of the causes and effects of these catastrophic phenomena. The impacts of these events on humankind will be addressed, as well as case histories of natural disasters. This course is intended for students of any major and has no prerequisites. (3-0)

GEOL 180 GSC2	Intro to Oceanography	3	All of Earth's residents, even those of us in landlocked Colorado, are profoundly influenced by the world's oceans. Using a multidisciplinary science approach, this course looks at the physical aspects of oceans, their aquatic life and environmental pressures on the oceans affecting us all. (3-0)
GEOL 202	Geologic Methods	2	An introduction to basic field and computer techniques used in geology. (1-3) Prerequisites: GEOL 113 OR GEOL 107
GEOL 207	Mineralogy	3	The elements of crystallography and the classification and identification of minerals. (2-3) Prerequisites: CHEM 150 AND (GEOL 107 OR GEOL 113)
GEOL 208	Optical Mineralogy	4	Procedures for identification of minerals in thin section, with emphasis on the optical determination of rock-forming minerals. (2-6) Prerequisites: GEOL 207
GEOL 210	Petrology	4	The megascopic study of igneous, sedimentary and metamorphic rocks with emphasis on the physical and chemical conditions governing the origins, occurrences and associations of various rock types. (3-3) Prerequisites: GEOL 207
GEOL 299	Individual Study	1-6	Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
GEOL 305	Volcanism of Hawaii	2	Perhaps nowhere on earth can students better experience the primal force of earth processes than on the island of Hawaii. This course travels to Hawaii to witness first-hand the formation of new land. Consent of instructor. (2-0)
GEOL 323	Geomorphology	4	The classification, description, nature, origin and development of present landforms and their relationships to underlying structures. Field trips. (3-3) Prerequisites: GEOL 202
GEOL 325	Introduction to Remote Sensing	4	Remote sensing is the study of the earth's land, water, atmospheric and human-made features using imaging devices on both airborne and spaceborne platforms. The course includes the study of electromagnetic energy and the application of remote sensing in geology, urban geography, meteorology, archaeology, agriculture, hydrology, etc. Lab work involves image interpretation using aerial photographs and computer-based digital image processing. (3-3) Prerequisites: (GEOL 113 OR GEOL 107) AND MATH 110
GEOL 332	Plate Tectonics	3	An introduction to crustal plates, their boundaries and their interactions given in terms of classic geological settings throughout the world. (3-0) Prerequisites: (GEOL 107 OR GEOL 113) AND MATH 121
GEOL 333	Introductory Paleontology	3	A paleobiological treatment of the systematic study of fossils, primarily invertebrate fossils, used in the identification and correlation of geologic formations. (2-3) Prerequisites: GEOL 114
GEOL 337	Structural Geology	4	The geometric, kinematic and dynamic analysis of structural features in the Earth's crust. Techniques in field mapping will be emphasized throughout the course. (3-3) Prerequisites: (MATH 121 OR PHYS 201) AND GEOL 202 AND GEOL 113
GEOL 361	Stratigraphy and Sedimentation	4	The description, classification and interpretation of sedimentary rocks and stratigraphy, including sedimentary processes, facies relationships, sequence stratigraphy, and stratigraphic nomenclature. Lab work includes sample description, field work in facies analysis, and stratigraphic analysis. (3-3) Prerequisites: GEOL 207 AND GEOL 210
GEOL 364	Igneous/Metamorphic Petrology	4	The origin, occurrence, classification and petrography of igneous and metamorphic rocks. (3-3) Prerequisites: GEOL 210 AND GEOL 208
GEOL 380	Technical Writing in Geology	3	Technical writing in the geological sciences will focus on the preparation of geological reports, analysis of data, resumes, proposals and bibliographic documentations. (3-0) Prerequisites: (COMP 126 OR COMP 150 OR FCS 100 OR GC01 OR GS 151) AND ([LIB 150] OR [LIB 150 EQUIVALENT] OR [GC02])
GEOL 405	Geol Data Analyze/Model-Comptr	4	Use of the computer to help transform geologic data into information. Covers computer fundamentals, univariate and multivariate statistics, contouring/mapping algorithms, trend surface analysis, variograms and kriging. Alternates with Geol 420. (2-6) Prerequisites: GEOL 202
GEOL 409	Economic Mineral Deposits	4	Mineral deposits are among the most unique, coveted, and controversial natural phenomena on earth. Minerals have been used to build empires, advance technology, and initiate wars. This course focuses on the distribution, origin, and identities of economic mineral resources. Basic concepts will be defined and selected systems explored in depth. (3-3) Prerequisites: GEOL 207 AND GEOL 210
GEOL 420	Introduction to Geochemistry	3	Behavior of the common rock-forming oxides in edogenic and exogenic processes; isotope geochemistry; geochemical exploration. Alternates with Geol 405. (3-0)
GEOL 430	Engineering Geology	3	Application of geological sciences to the location, design, construction, operation and maintenance of engineering works. Alternates with Geol 435. (3-0) Prerequisites: GEOL 210 AND MATH 121
GEOL 435	Groundwater	4	The qualitative and quantitative aspects of the occurrence of water in the ground. Alternates with Geol 430. (3-3) Prerequisites: GEOL 361
GEOL 441	Field Geology	6	The fundamental procedures and practices in geologic mapping. Summer term. Prerequisites: GEOL 210 AND GEOL 337
GEOL 496	Senior Seminar I	1	Preparatory to Geol 497, students initiate and conduct independent, original research as part of a senior thesis project. Students work with faculty advisors and produce written and oral progress reports. (1-0) Prerequisites: GEOL 380

GEOL 497 **Senior Seminar II Thesis** 2
Emphasis on the preparation, writing and public presentation of the senior thesis project. A component of original research is central to the project and must be completed prior to the course. (2-0)
Prerequisites: GEOL 496

GEOL 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

GENERAL STUDIES

GS 100 **Freshman Seminar** 1-2
The purpose of this course is to engage students intellectually through rigorous academic study in small class settings and to connect them to faculty, other students, and Fort Lewis College.

GS 101 GAH2 **Human Heritage I** 4
This two-term course is a study of Western, Chinese and Native American intellectual traditions. The course is designed to help students understand how our cultural traditions influence our ways of looking at the world and how studying cultures other than our own expands and challenges our frame of reference. The course emphasizes intellectual, artistic, political, scientific, religious and economic aspects of the three cultures from selected periods in history. Human Heritage II is a continuation of Human Heritage I. (4-0)

GS 102 GAH2 **Human Heritage II** 4
Continuation of GS 101. (4-0)

GS 105 **Exploring the Liberal Arts** 2
This course helps students realize the possibilities of a liberal arts education. The course includes a historical component in which students consider the tradition of the liberal arts college, an introspective component in which students look at their interests, talents, and passions, and a research component in which students investigate the knowledge and abilities developed in selected disciplines. (2-0)

GS 189 **Enrichment Class** 1-2
One- or two-credit elective "mini-courses" addressing unique or unusual topics that give currently-enrolled students the opportunity to add elective credits to their schedules after Census. Courses are graded pass/fail and count for elective credit only; the credits may not be applied to major, minor or general education requirements. Students are limited to two Enrichment courses per term and to a total of 12 pass/fail credits.

GS 250 **International Studies** 1
This course is required for students who intend to study abroad while at Fort Lewis College and is directed to students who will be independently participating on international exchanges, study abroad programs, or through direct enrollment agreements at foreign institutions. This course may be taken any semester before studying abroad and is designed to help students investigate the numerous destinations and programs available to them, as well as how these programs fit within the Fort Lewis College curriculum and credit transferability guidelines. General information on foreign academic systems and teaching methodologies, passports, visas, financial aid, and health and safety issues are also covered to help students make informed decisions on their program choices. It is during this section that students will evaluate how this experience will or will not fit into their academic plan. Students participating on FLC faculty run programs are not required to take this course, but are welcome. The course is graded Pass/Fail. (1-0)

GS 251 **International Studies** 1
This course is required for students the semester directly preceding a study abroad experience. Admission requirements, housing information, travel arrangements and visa procedures change frequently and information is time-sensitive. Students will be required to research their prospective programs, becoming informed on the current political, cultural and bureaucratic specifics of their chosen country and region. While enrolled in this course, students will complete the application process for their selected programs, as well as a pre-departure orientation. The International Programs Office will only process student applications submitted through this class. Students must be enrolled in this course in order for the International Programs Office to work as their advocate and liaison between FLC administrative offices, faculty, staff and international partners. This course is graded Pass/Fail. (1-0)
Prerequisites: GS 250

GS 310 **Leadership in Intl Education** 2-4
Students have the opportunity to work in the International Programs Office on a variety of projects associated with study abroad, foreign student advising, and website design. Students who have returned from an overseas experience, or who are here as visiting international students, will find the experience especially relevant when pursuing post-graduation job opportunities. Prospective international students will have the opportunity to explore the various aspects of international education and program development. Pass/Fail credit.
Prerequisites: GS 250 AND GS 251

GS 325 **Law, Lawyers & Legal Education** 4
This course is for students with a serious interest in law school and a legal career. We will explore legal education; how different legal systems form and operate; what it means to be a "lawyer;" the roles for lawyers in society; and the process of legal decision making. We will also develop legal research, writing, and critical thinking skills. (4-0)

GS 375 **International Studies-Exchange** 3-18
This course provides appropriate credit for studies completed in one of FLC's exchange programs with European Postsecondary schools. It may be repeated once for credit. The exact number of credit hours will be determined by the appropriate Dean after review of the study program completed.
Prerequisites: GS 250 AND GS 251

GS 376 **USAC** 6-18
Students participate in programs offered through the University Studies Abroad Consortium (USAC), of which Fort Lewis College is a member. Students pay tuition and fees to USAC. Instructor permission. Repeatable. Pass/Fail grading.
Prerequisites: GS 250 AND GS 251

GS 377 **International Studies-Direct** 1-18
Students enroll directly into affiliated international institutions worldwide. Students pay equivalent of Fort Lewis College in-state tuition plus foreign program fee. Pass/Fail grading. Repeatable.
Prerequisites: GS 250 AND GS 251

GS 378 **International Study Abroad** 6-18
Students participate in programs offered through other U.S. institutions or accredited third party providers. Students pay tuition and fees directly to the program provider. Pass/Fail grading. Instructor Permission required. Repeatable.
Prerequisites: GS 250 AND GS 251

GS 389 **Enrichment Class** 1-2
One- or two-credit elective "mini-courses" addressing unique or unusual topics that give currently-enrolled students the opportunity to add elective credits to their schedules after Census. Courses are graded pass/fail and count for elective credit only; the credits may not be applied to major, minor or general education requirements. Students are limited to two Enrichment courses per term and to a total of 12 pass/fail credits.

GS 495 **Environmental Colloquium** 4
This course, which is a capstone course for the Environmental Policy Minor, involves conducting and reporting on an integrative project in weekly meetings involving several faculty members from across the academic disciplines. The project can involve research, assessment or analysis of ongoing programs, policy or proposals for action. This student-constructed project provides a Service Learning opportunity for students. (4-0)
Prerequisites: PSYC 241 OR MATH 201 OR BA 253

GS 496 **Interdisciplinary Senior Sem** 2-4
An interdisciplinary seminar for graduating seniors, this course provides a capstone experience of broad intellectual inquiry, including a focus on critical reading and thinking, problem solving and the written expression of ideas.

GS 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the department chair and dean. Fifty (50) contact hours are the equivalent of one credit hour.

HISTORY

HIST 140 GHI1 **Survey of African History I** 3
An overview of important historical trends in Africa from ancient times to the 19th century. Themes of technological innovation, social change, state and empire building, the spread of Islam, international commerce and the slave trade receive emphasis. (3-0)

HIST 141 GHI1 **Survey of African History II** 3
A study of 19th and 20th century Africa. Special attention is paid to the growing importance of Africa in world affairs and to links with the peoples of African descent in the Americas. (3-0)

HIST 150 GHI1 **World Civilization I** 3
This course traces the rise of civilizations throughout the world, until the beginning of the 16th century (1500 C.E.). It delves into the life and thoughts of ancient peoples from the civilizations of the Near East, Greece, Rome, India, Africa, America, and Asia. The course is inherently multicultural and global, emphasizing the major stages in the interactions among different societies. (3-0)

HIST 151 GHI1 **World Civilization II** 3
This course studies the development of civilizations throughout the world since circa 1500, and emphasizes the major stages in the interactions among different societies. Most of the world's major civilizations are examined, including those in the Western tradition but also those sometimes neglected. Independent developments in each civilization are balanced with comparative analysis of the results of global contact. (3-0)

HIST 160 GHI1 **Surv of Western Civilization I** 3
Examines the origins of the institutions and beliefs of western civilization from the earliest civilizations in Mesopotamia and Egypt, tracing the development of these beliefs and institutions through Greece and Rome and their preservation and enhancement in the early medieval period of European history. (3-0)

HIST 170 GHI1 **Survey East Asian Civ I** 3
This course surveys the history of East Asia (China, Japan and Korea) from ancient times to the mid-nineteenth century. It includes an introduction to Asian philosophies, religions, cultures, politics and societies. Students will gain a general understanding of a region that is the longest surviving human civilization still in existence. (3-0)

HIST 171 GHI1 **Survey East Asian Civ II** 3
This course studies modern East Asia from the mid-19th century to the present. It examines the interactions between Western power and influence and Asian nationalism. An important theme is to discover why Japan and China took different paths in modern times. (3-0)

HIST 175 **Intro Latin American History** 3
A broad survey of key issues essential to an understanding of Latin American history from the 15th century unto the present: the conquest, ethnic relations, African slavery, Creole nationalism, mercantilism, scholasticism, the Church, the Bourbon reforms, political independence, liberalism, caudillaje, the military, economic dependency, revolutionary movements and inter-American relations. The course is designed as an introduction to Latin America for both those who intend to continue to study the subject and those who want a general knowledge of the history of the region. (3-0)

HIST 181 GHI1 **US/SW Environmental History** 3
This course explores the environmental history of the U.S. from pre-European contact through today. The course will look at how the land and culture(s) interacted to reorganize and redefine one another, the relationship between environmental and cultural change and how the present is linked to the past. This course is the same as SW 181; credit will be given for only one of these courses. (3-0)

HIST 250 GCO2 **Composition in History** 4
This course introduces students to methodologies, skills, and structures of scholarly writing and research. Students work on critical reading and writing skills, using primary and secondary sources, and more advanced inquisitive, academic skills. Students analyze a variety of texts and work toward a final research project. Although based in part on historical methodology, interdisciplinary writing theories and concepts are developed. (4-0)
Prerequisites: COMP 150 OR COMP 126

HIST 261 GHI1 **West Civ II: 1350 to Present** 3
A study of the transition of European society from medieval times through the Renaissance to the modern era, noting the profound economic, social and political changes that are expressed in cultural, political and intellectual revolutions, dominance of Europe and America in the world and devastating war on a scale unknown before. (3-0)

HIST 262 GHI1 **Toler/Persecution in Middle Ages** 4
Is persecution an ever-present function of organized society, or does it have specific historical catalysts? We will investigate this question using examples from early Europe, looking closely at the development of anti-Semitism as well as changing attitudes in authorities' and "ordinary" people's perceptions of marginal groups--such as gays, heretics and witches--from the rise of Christianity to the Reformation. (4-0)

HIST 263 GHI1 **Medieval Life-Mod Film & Liter** 4
This course covers aspects of the historical European Middle Ages (nobility, knighthood, religion, gender relations, etc.) through modern films and texts, using these resources to pose questions both about the medieval past and our modern need to revisit it in our own media. (4-0)

- HIST 270 GHI1 **Colonial Latin America** 3
An overview of important historical trends in the Spanish and Portuguese empires in the Americas. The course will focus on the cultural developments that resulted from the contact and integration of the European and American civilizations in the 16th century, and it will give particular emphasis to those sectors of colonial society that have continued to play a vital role unto the present, thus setting the stage for an examination of the events and conditions that led to the movements for independence in the early 19th century and the formation of the modern nations of the region. Recommended as a foundation course in Latin American history. (3-0)
- HIST 271 GHI1 **Latin Amer Since Independence** 3
An examination of the major cultural and political developments in Latin America from the late 18th century to the present. The course will focus, by necessity, on the larger and more influential countries of the region in an attempt to identify and understand historical patterns common to all areas. Recommended as a foundation course in 19th and 20th century Latin American history. Recommended preparation: Hist 270. (3-0)
- HIST 280 GHI1 **Surv of US History, 1600-1877** 3
A survey of topics in American history from the founding of the first successful English colony through Reconstruction. The course will explore the European settlement of North America, the Revolution, the creation of the republic, the reforms and cultural renaissance of the 1840's, the Civil War, Reconstruction and the Indian wars of the 1860's and 1870's. (3-0)
- HIST 281 GHI1 **Surv US History, 1877-Present** 3
A survey of American History from the age of enterprise to the present. The topics covered include the modernization of the economy, the development of American foreign policy, the evolution of the liberal state, the emergence of modern conservatism, and the cultural and social movements that have shaped contemporary America. (3-0)
- HIST 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- HIST 302 **Ancient Rome** 4
Introduction to ancient Rome from its Etruscan beginnings to the end of the Empire. Topics include republican government, imperial expansion, daily life, Roman ideas about morality and sexuality, education, and the arts. We will also look at the "lighter" side of Rome, including gladiators, baths and brothels - pastimes that characterized ordinary life in the Eternal City and its provinces. (4-0)
- HIST 304 **Historical Fiction: Topics** 2
Explores the history of a designated region of the world, or two regions in comparative perspective, through a selection of literature and/or film. From the classics to popular culture, students study different forms of fiction to better understand past historical developments and issues while making connections to contemporary problems. Repeatable once if a different topic (may count one towards major). (2-0)
- HIST 308 **Rise of Christianity** 4
A study of the historical Jesus of Nazareth, Judaism and the first century Jewish Palestine under Roman domination. The development of Pauline Christianity and the struggle between orthodox and Gnostic Christians culminating in the final orthodox victory around 400 A.D. will be studied in depth. This course is the same as RS 308; credit will be given for only one of these courses. (4-0)
- HIST 311 **Colonial & Revl Amer 1492-1789** 4
The course focuses on colonial America from European exploration to the revolutionary era. It will deal with patterns of conflict and cohesion, the creation of a distinctly American people, and the consequences of the American Revolution. (4-0)
- HIST 314 **Inventing America 1789-1850** 4
This course will explore the economic, political, social, religious, cultural and environmental changes that made this such a period of transformation, and how this foundational era gave shape to the rise of modern America. (4-0)
- HIST 315 **Irish, Catholic, American** 4
This course will use the Irish experience in America to highlight the general course of United States history, and the complex way in which ethnic and religious identity both shaped the American landscape while being in turn shaped by the American environment. The course will consequently explore immigration, politics, religion, education, women, family and urban history, and grapple with important issues like nativism, acculturation, cultural maintenance and identity. (4-0)
- HIST 316 **Civil War America** 4
The 20 years that changed America, 1848-1868. The causes, campaigns, people and significance of the Civil War era. (4-0)
- HIST 318 **Emergence/Modn Amer 1893-1939** 4
In these colorful and sometimes desperate decades, modern America was forged. The topics covered will include the Populist and Progressive movements, World War I, the cultural tumult of the 1920's, the Great Depression and the New Deal. (4-0)
- HIST 321 **War and Peace in Africa** 4
Most of the world's wars in recent years have been in Africa, and most have been internationalized civil wars. Why? The losses and suffering have been incalculable in the poorest of the continents. What national, regional and global factors have been at play? What peacekeeping and peacebuilding initiatives have been initiated? (4-0)
- HIST 322 **Western American Mining** 3
Starting with the Spanish explorations, the course sketches the history of the industry and its impact on the region and people through the early 20th century. This course is the same as SW 482; credit will be given for only one of these courses. (4-0)
- HIST 324 **Colorado History** 3
This course traces the story of Colorado and its people from the Anasazi to the present day. This course is the same as SW 481; credit will be given for only one of these courses. (3-0)
- HIST 326 **Baseball & the American Dream** 4
Examines the impact of baseball on such varied topics as urbanization, literature, business and racial relations. Baseball from the inside and outside. (4-0)
- HIST 328 **Christianity in US History** 4
This course covers the role of Christianity in the United States history from the nation's creation until today. The class will look at how mainline Christian denominations have shaped U.S. history and been in turn shaped by the American experience. Within this broad historical sweep of linking the past to the present, important issues like the separation of church and state and how the nation has gone from Protestant establishment to secularism, as well as how law and politics have come to impact religion, will be examined. This course is the same as RS 328; credit will only be given for one of these courses. (4-0)

- HIST 331 **Politics of Poverty in U.S.** 4
Examines poverty in the United States from the colonial period to the present, focusing on the evolution of social policy, poverty knowledge, and worker and community organizing against poverty. The course will also focus on poverty debates as they relate to structures of racial, economic, and gender inequality and the meaning of democracy and citizenship. (4-0)
- HIST 332 **Women in American History** 4
An analysis of women's experience from the colonial period to the present. Focusing on the way gender has been defined and redefined, the course considers such issues as work, friendship and marriage, reproduction, the struggles for equality and women's culture. The influence of class, race and ethnicity on women's experiences will also be considered. This course is the same as WS 332; credit will be given for only one of these courses. (4-0)
- HIST 333 **America Since 1945** 4
An exploration of the forces that have shaped America since the end of World War II. Topics include the history of the Cold War from the dropping of the atomic bomb and the war in Vietnam to the uncertain interventions of today, the contest between liberals and conservatives over the national identity and the role of government, the Civil Rights movement, the women's movement and environmentalism. (4-0)
- HIST 334 **United States & Vietnam** 4
No conflict so dramatizes the contradictions of the Cold War or so exposes the dynamics of government policy-making as the United States' involvement in the conflict in Southeast Asia. The course analyzes the history of America's intervention, the struggle of the Vietnamese people for control of their land, and the domestic turmoil that was an essential accompaniment to this war. (4-0)
- HIST 335 **Work and Workers in the U.S.** 4
Examines the history of work and workers in the United States from the colonial period to the present, focusing on the evolution of management techniques, government actions and legislation, and worker organizing and culture. The course will also relate the labor movement to debates over the meaning of democracy, citizenship, and equality. (4-0)
- HIST 337 **Cult & Intell Hist of Amer 20C** 4
This course explores the shifting currents of American thought and belief from pragmatism to postmodernism. Topics include the Darwinian revolution, the culture and cult of science, literary and political radicalism, the culture and crisis of capitalism, feminist theory, and postmodernism. (4-0)
- HIST 342 **West Africa** 4
Basic trends and selected issues in the history of the region bounded by the Sahara and the Atlantic seaboard. Themes include commercial networks and urbanization, the influence of Islam, slavery and the slave trade, European colonization, nationalism and the environmental crisis. (4-0)
- HIST 343 **Ancient Nile Valley** 4
Survey of developments in Ancient Egypt and Nubia from the origins of agriculture through the Pyramid Age, Egyptian imperialism, Nubia's golden era, the impact of Hellenism and down to the extinction of the last outpost of Pharaonic civilization at Meroe. (4-0)
- HIST 344 **Northeast Africa** 4
Historical trends and questions affecting the Nile Basin and the Horn, with emphasis on the period since 1800. Topics include the shaping of ideologies (nationalism, socialism, Islamic fundamentalism,) the Ethiopian Revolution, hydropolitics, the roots of famine, social change, the Somali civil war. (4-0)
- HIST 346 **South Africa** 4
A survey of the present Republic of South Africa from Iron Age culture through European settlement, the 19th century Mfecane upheaval, the gold rush and apartheid to the election of 1994. (4-0)
- HIST 348 **Africans in the Americas** 4
The dispersion of Africans to the Americas during the slave trade and the subsequent history of people of African descent in the Western Hemisphere, with particular reference to cultural developments and to the pan-African movement. (4-0)
- HIST 349 **Islam in History** 4
The emergence of the Islamic religion in 7th century Arabia, the development of Islamic institutions and civilization in Asia and Africa, and the significance of Islamic cultures in the history of sciences, arts, literature, technology and historiography. (4-0)
- HIST 351 **US-East Asian Relations** 4
This course examines the ever-changing relationship between the United States and East Asia. It analyzes American motivations and policies toward East Asia and explains the purposes and actions taken by East Asian nations in their efforts to deal with the United States. (4-0)
- HIST 352 **Modern China** 4
This course concentrates on 20th century China. It explores the social issues that led to the rise of Chinese Nationalism and Communism. It analyzes the current changes that are making China a world economic power. (4-0)
- HIST 354 **WomenFamilyGender/ChineseHist** 4
In this course we explore the Chinese family structure and gender roles, in theory and practice, over the past millennium. Readings range from memoirs and biographies, to scholarly essays, to fictional writings by men and women. Paintings, crafts and films will also provide important sources as we examine the visual images of women and men throughout this period. (4-0)
- HIST 355 **East Asian Popular Religion** 4
This course examines East Asian popular religious practices in their historical, social and economic contexts. We begin with theoretical works and introductory lectures on ritual, sacred space, pilgrimage, and various East Asian philosophical and religious traditions, including Confucianism, Daoism, Buddhism and Shinto. We will then focus on specific East Asian pilgrimages, sacred sites, rituals and myths, progressing from ancient to modern periods. (4-0)
- HIST 356 **History of Japan** 4
This class examines institutional and cultural developments in Japan from the development of a centralized state to the present. We will particularly focus on the Tokugawa period, Japans' reaction to Western encroachment, its meteoric rise as an imperial power, the post-WWII economic miracle and Japan's role in the contemporary world. In addition to political changes, we will also examine changing social and gender roles, religious developments and the importance of arts and crafts. (4-0)
- HIST 359 **Medieval Europe** 4
An examination of culture, society, politics, religion and gender in the historical development of medieval Europe using both primary and secondary written source material with reference to the art, music and philosophy of the period as well. (4-0)
- HIST 360 **Renaissance Europe** 4
Using the history of Europe from 1400-1600 as a framework, students of Renaissance Europe will consider the further development of western society through the examination of primary written source material with reference to the art, music and philosophy of the period as well. (4-0)

HIST 361 **Czarist Russia** 4
A study of the Russian past before the revolutions of 1917 in order to understand the events, personalities, ideas and key challenges of ruling the sprawling Russian Empire. Topics include Kievan Rus, the legacy of the Mongol invasion, and the rise and fall of the Romanov dynasty. (4-0)

HIST 362 **Rise & Fall of Soviet Union** 4
A study of the Soviet Union seeking an understanding of why and how it arose, and ultimately collapsed, the nature of the state and society of the Soviet Union, and its relationship with the rest of the world. (4-0)

HIST 364 **Germany: Roman Times to 1919** 4
A study of the German past focusing particularly on the efforts of Germans and others to define Germany: who are Germans, where is Germany and what is Germany politically and culturally. (4-0)

HIST 365 **Germany: 1919 to Present** 4
Study of German history seeking an appreciation of German achievements and an understanding of the disaster of German politics in the first half of the 20th century. (4-0)

HIST 366 **Hitler and the Holocaust** 3
A study of the racial ideology of National Socialism and how it became state policy in Germany, 1933-45, and resulted in the Holocaust. (3-0)

HIST 368 **Medieval Women** 4
This course explores the frustrations as well as the power women had in Western Europe between the 6th and 14th centuries. (4-0)

HIST 371 **History of Central America** 4
A close examination of important historical trends in the areas known today as Belize, Guatemala, El Salvador, Nicaragua, Honduras and Costa Rica since the late 15th century. Some time will be spent on the pre-conquest period, but most of the course will focus on those aspects of colonial society that have remained vital unto the present, the aftermath of political independence from Spain, the prominent role of British and North American interests in the region, the unique economic developments within each country and the revolutionary turmoil of the late 20th century. (4-0)

HIST 372 **U S - Latin American Relations** 4
An overview and analysis of the historical developments of political and economic relationships between the United States and Latin America since the late 18th century. The course focuses on United States policy toward the rest of the western hemisphere and the reactions of various countries and regions of those policies. Particular emphasis is given to the Latin American movements for independence, United States-British rivalry in the Caribbean, the Mexican War, United States economic expansion in the late 19th century, the Spanish-American War, the Panama Canal, United States involvement in the Mexican and Cuban revolutions and the effects of the Cold War on relationships among the countries of the Americas. (4-0)

HIST 373 **History of Mexico** 4
An analysis of important trends in the history of Mexico since the late 15th century. Although some time is spent on the pre-conquest era, the bulk of the class focuses on those aspects of colonial society that have remained significant into the present, the peculiar development of Mexican Independence, the disastrous clash between Liberals and Conservatives in the 19th century, the Mexican revolution and the turbulent years after the Second World War. (4-0)

HIST 382 **Reformatn Euro & Wars of Relig** 4
An examination of culture, society, politics, religion and gender in the historical development of 16th and 17th century Europe using primary written source material with reference to the art, music and philosophy of the period as well. (4-0)

HIST 396 **Philosophy and Methods** 4
The course explores the ways historians, past and present, think about and practice the craft of writing history. It introduces students to new fields of historical research and multi-disciplinary approaches to the past. Special emphasis is placed on developing skills necessary for becoming successful writers in the field. This course is required for all majors and should be taken in the second term of the sophomore year or during the junior year. (4-0)

HIST 446 **Ancient Israel and Judah** 3
This seminar covers ancient Israel from its beginnings around 1250 B.C. to the execution of Jesus of Nazareth around 35 A.D.. Major topics include the origins of Israel and Judah, biblical composition and authors, relations with Egypt and Assyria, the Dead Sea Scrolls and Jesus in Jewish historical context. An historiographical approach is emphasized. This course is the same as RS 446; credit will be given for only one of these courses. (3-0)

HIST 465 **Adv Studies in European Hist** 3
A research seminar that examines topics in European history. The seminar will explore historiographical issues and research strategies. Students will write a research paper. Course content will vary. Topics will include, but are not restricted to, the Reformation and Modern Europe. Course may be repeated for credit provided the subject matter is different on each occasion. (3-0)

HIST 475 **Adv Studies in Latin Amer Hist** 3
A research seminar that examines selected topics in Latin American history and may include "Spanish Frontier in North America" or "Colonial New Mexico." The seminar will explore historiographical issues and research strategies. Students will write a research paper. Course content will vary. Course may be repeated for credit provided the subject matter is different on each occasion. (3-0)

HIST 485 **Adv Studies in U.S. History** 3
A research seminar that examines selected topics in United States history. The seminar will explore historiographical issues and research strategies. Students will write a research paper. Course content will vary. Course may be repeated for credit provided the subject matter is different on each occasion. (3-0)

HIST 496 **Research Senior Seminar** 4
A capstone course in the preparation of a senior history research paper with a public presentation and defense. (4-0)
Prerequisites: HIST 396

HIST 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

HONORS

HON 220 **Honors Forum** 1
The purpose of this course is to facilitate critical evaluation and discussion of selected works having broad intellectual importance and accessibility to students of varied academic interests and backgrounds. Course is repeatable for credit for freshman- and sophomore-level students. (1-0)

HON 420 **Honors Forum** 1
This course continues the series of Honors Forums required for John F. Reed Honors students. Course is repeatable for credit for junior- and senior-level students. (1-0)

HON 499 Honors Thesis 1-2
 The Honors Thesis is the result of an independent study project undertaken during the senior year. The topic of the thesis must draw significantly on at least two academic disciplines. The student should choose a topic for the thesis in consultation with a faculty advisor, a reader from the second discipline, and the Honors Coordinator. At the end of the first term, the student must submit evidence of substantial work accomplished. During the second term, the student will complete the thesis and make a public presentation of the results. Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

LIBRARY RESEARCH METHODS

LIB 150 Academic Library Research 1
 Students in this course locate, evaluate and cite information sources appropriate for supporting college level research assignments, papers and projects. Material covered emphasizes developing general, transferable research concepts and skills and applying effective and ethical research strategies. Students learn when and how to cite sources of information according to ethical academic research practice. (1-0)

MATHEMATICS

NOTE: All specified prerequisites for all math courses must be completed with a grade of C- or better.

MATH 105 GMA1 College Mathematics 3
 This course is intended for students who do not intend to pursue upper-level mathematics courses. Survey of statistics and probability, critical examination of quantitative data in the media, consumer applications, environmental mathematics, and other "real world" applications. (3-0)
 Prerequisites: Computed Math Placement MA110 OR TRS 92

MATH 110 GMA1 College Algebra 4
 This course covers the topics in algebra necessary for students who plan to enroll in Math 210 Survey of Calculus or Math 121 Pre-calculus. The use of technology to aid in problem solving is an integral part of the course. Specific topics covered are simplifications of algebraic expressions, complex numbers, solutions of equations (including systems of linear equations) and inequalities, and functions, including polynomial, root, rational, exponential, and logarithmic. (4-0)
 Prerequisites: TRS 92 OR Computed Math Placement MA110

MATH 120 Pre-Calculus Algebra Support 1
 This course is taught concurrently with Math 121 Pre-Calculus. It will teach the more advanced algebraic manipulation skills needed in Pre-Calculus. These skills include solving equations, factoring expressions, manipulating rational exponents, simplification and manipulation of rational expressions, solving rational equations, solving complex exponential and logarithmic equations, and algebraic manipulation of trigonometric identities and functions. (1-0)
 Prerequisites: MATH 110

MATH 121 GMA1 Pre-Calculus 4
 This course covers the topics in algebra and trigonometry necessary for students who plan to enroll in Math 221 Calculus I. Technological methods, in addition to symbolic methods, are essential in solving problems. The course will include an in-depth analysis of the topics covered in Math 110, with additional emphasis on symbolic methods. The concept of function, with its multiple representations, will be emphasized. (4-0)
 Prerequisites: MATH 110 OR Computed Math Placement MA121

MATH 201 GMA1 Elementary Statistics 4
 An introduction to basic ideas in statistics including descriptive statistics, measure of central tendency and dispersion, probability, sampling distributions, estimation, hypothesis testing, regression and correlation, and statistical software application. This course is equivalent to BA 253; credit will be given for only one of these courses. (4-0)
 Prerequisites: MATH 110 OR Computed Math Placement MA121 OR MATH 121 OR MATH 221 OR MATH 222 OR MATH 210

MATH 210 GMA1 Survey of Calculus 4
 This course is intended as a survey of calculus for students who do not intend to continue their study of calculus. Topics include limits, differential and integral calculus of one variable, and an introduction to calculus of two variables. Math 210 does not satisfy the prerequisite for Math 221 and Math 222. Students who require a more rigorous treatment of calculus should take Math 221 and Math 222. (4-0)
 Prerequisites: MATH 110 OR MATH 121 OR Computed Math Placement MA121

MATH 215 Math for Elem School Teacher I 3
 This course is designed primarily for the elementary school teacher. It includes a study of sets, set operations, construction of numeration systems, whole and integer and rational number arithmetic, ratio and proportion, decimals, percent, selected topics in geometry, the metric system, and an introduction to the real number system. (2-2)
 Prerequisites: (TRS 92 OR Computed Math Placement MA110)

MATH 221 GMA1 Calculus I 4
 Limits, continuity, derivatives and integrals of functions of one variable including polynomial, root, rational, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Applications of calculus are included. (4-0)
 Prerequisites: MATH 121 OR Computed Math Placement MA221

MATH 222 GMA1 Calculus II 4
 A continuation of Math 221. Techniques and applications of integration, introduction to differential equations and applications, sequences and series, and applications using polar and parametric coordinate systems. (4-0)
 Prerequisites: MATH 221 OR Computed Math Placement MA222

MATH 223 GMA1 Calculus III 4
 Vectors and multivariable calculus with applications. (4-0)
 Prerequisites: MATH 222

MATH 299 Individual Study 1-6
 Individual research if conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

MATH 301 Foundations for Advanced Math 4
 A study of mathematical systems and the forms and techniques of proofs. Included are logic, set theory, and an introduction to elementary number theory. These are studied in some depth and with careful attention to forms of proofs. The writing of these proofs in a standard mathematical form is emphasized. (4-0)
 Prerequisites: MATH 221

MATH 310 Math for Secondary Teachers 3
 This course is for students who are planning to be secondary or middle school teachers. It will include concept from discrete math, geometry, algebra, and data collection and analysis. This course emphasizes synthesis and a deeper understanding of the mathematical topic found in the high school curriculum. Note: Students enrolling in Math 310 must have placement into the teacher education program and Junior standing. (3-0)

MATH 311	Matrices & Linear Algebra	4
A study of the properties and applications of matrices, including systems of equations, determinants, similarity, and eigenvalues. An introduction to the theory of vector spaces and linear transformations. (4-0)		
Prerequisites: MATH 221		
MATH 316	Topics in Number Theory	3
Some of the topics to be presented in this course are: modular arithmetic, finite fields, basic prime number theorems, congruences, and combinations. (3-0)		
Prerequisites: MATH 221		
MATH 318	Math for Elem School Teacher II	3
A continuation of Math 215. Topics will include the use of calculators and computers, discrete math, data analysis, and an introduction to algebra. (2-2)		
Prerequisites: MATH 215		
MATH 325	History of Mathematics	3
The development of selected mathematical concepts will be traced from the Greek era. The course will focus on mathematical creation as a human endeavor done within a cultural context. (3-0)		
Prerequisites: MATH 221 OR MATH 222 OR MATH 223		
MATH 327	Differential Equations	4
An introduction to ordinary differential equations. Topics will include methods of solving first-order nonlinear equations, basic theory and methods of solving nth-order linear equations, including infinite series methods. Further topics will include an introduction to systems of linear ordinary differential equations and the Laplace transform. Applications will be emphasized. (4-0)		
Prerequisites: MATH 222		
MATH 342	Modern College Geometry	3
A course in college geometry that includes topics in Euclidean and non-Euclidean geometries. (3-0)		
Prerequisites: MATH 301		
MATH 424	Advanced Calculus	4
Topics include structure of the real number system and Euclidean spaces, general theory of limits, continuity, derivatives, Riemann integrals, series and sequences, coordinate systems transformations, physical fields, and Divergence and Stokes theorem. (4-0)		
Prerequisites: MATH 223 AND MATH 301		
MATH 430	Complex Variables	3
This course will cover topics in complex numbers, analytic functions, elementary functions and associated mappings, integrals, series, residues and poles, and conformal mappings. (3-0)		
Prerequisites: MATH 223		
MATH 487	Algebraic Structures	4
A course in abstract algebra including topics from the theories of groups, rings, and fields. Applications will be discussed. (4-0)		
Prerequisites: MATH 301		
MATH 496	Mathematics Senior Seminar	3
Advanced study and research in selected topics that will include written and oral presentations of a project involving library research. Activities relate to various mathematical careers, and students participate in seminars given by visiting mathematics instructors. Consent of instructor is required. (3-0)		
MATH 499	Independent Study	1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.		

MODERN LANGUAGE

ML 100	Fund of Navajo Language	3
A course in the basic fundamentals of the Navajo language on the oral-aural approach. The instructor is a native speaker, and much use is made of tapes, etc. This course is the same as SW 100; credit will be given for only one of these courses. (3-0)		
ML 101	Navajo Language II	3
Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language. This course is the same as SW 101; credit will be given for only one of these courses. (3-0)		
Prerequisites: ML 100 OR SW 100		
ML 109	Introductory Latin I	4
An introduction to the Latin language. (4-0)		
ML 110	Introductory Latin II	4
Continuation of ML 109. (4-0)		
Prerequisites: ML 109		
ML 115	Elementary Spanish I	4
A course in grammar, prose composition, reading, and conversation. Beginning Spanish is for students with no previous exposure to the Spanish language. Development of all four language skills, especially listening and speaking. (4-0)		
ML 116	Elementary Spanish II	4
Continuation of ML 115. (4-0)		
Prerequisites: ML 115 OR Spanish Language Placement Score S116		
ML 118	Spanish of the Southwest	4
This course will teach Spanish by studying the Spanish language and culture of the Southwest. It is especially appropriate for students who have lived in a Spanish-speaking or bilingual environment. Students will be prepared in reading, prose composition, speaking, and grammar. (4-0)		
Prerequisites: ML 115		
ML 123	Elementary German I	4
A course in grammar, pronunciation, reading, and conversation. (4-0)		
ML 124	Elementary German II	4
Continuation of ML 123. (4-0)		
Prerequisites: ML 123 OR German Language Placement Score G124		
ML 128	Conversation I - German	1
Instruction in everyday German conversation. Optional. (1-0)		
Prerequisites: ML 123		
ML 130	Beginning Mexican Readings	4
This course is offered as part of the Human Service program in Mexico, which is offered through the Sociology Department. Students read, discuss, and write about Mexican literature and poetry as well as newspaper and magazine articles while they live and do human service work in Mexico. Students enroll at the appropriate level. (4-0)		
ML 135	Introductory Japanese I	4
An introduction to the Japanese language. Development of all four language skills. A course in pronunciation, listening, prose composition, reading, and writing in Hiragana, Katakana, and Kanji. (4-0)		
ML 136	Introductory Japanese II	4
Continuation of ML 135 with emphasis on grammar, reading, writing, and speaking. (4-0)		
Prerequisites: ML 135		

ML 147	Elementary French I	4	A course in grammar, prose composition, reading and conversation. (4-0)	ML 305	Survey of French Literature	3	An historical and literary survey of the principal French works of literature from the Middle Ages to the 20th century. (3-0) Prerequisites: ML 248
ML 148	Elementary French II	4	Further study of French with emphasis on reading, composition, and conversation. (4-0) Prerequisites: ML 147 OR French Language Placement Score F148	ML 308	Topics in French Literature	3	Topics will vary; the course may be repeated for credit as long as a different topic is presented. (3-0) Prerequisites: ML 248
ML 215 GAH4	Intermediate Spanish I	4	A course in second-year Spanish with emphasis on grammar review, reading, and conversation. (4-0) Prerequisites: ML 116 OR Spanish Language Placement Score S215	ML 318	Advanced Spanish of Southwest	4	This course will teach Spanish by studying the Spanish language and the culture of the Southwest. It is especially appropriate for students who have lived in a Spanish-speaking or bilingual environment. Students will be prepared in reading, prose composition, speaking and grammar. Students at this level will do extensive reading and writing of literature of the Southwest in Spanish. They will also do oral presentations in Spanish on selected class themes. (4-0) Prerequisites: ML 216
ML 216 GAH4	Intermediate Spanish II	4	Continuation of ML 215, with greater emphasis on reading and writing. (4-0) Prerequisites: ML 215 OR Spanish Language Placement Score S216	ML 319	Adv Spanish Convers & Comp I	4	A course designed to develop a higher level of proficiency in spoken Spanish based on critical analysis of literary works, cultural aspects, and current issues. May be repeated for credit. (4-0) Prerequisites: ML 216
ML 219	Interm Spanish Conversation	4	Students will engage in practical every day situations, as well as discussions on current issues and events through interaction. (4-0) Prerequisites: ML 215 OR ML 216	ML 320	Adv Spanish Composition	4	A course designed to improve the student's writing skills in Spanish through the use of original essays, description, composition, letters, and the organization and delivery of research papers. This cannot be taken concurrently with ML 496. The course must be taken at Fort Lewis College to count toward the degree in Spanish. No exceptions. (4-0) Prerequisites: ML 216 AND ML 319
ML 223 GAH4	Intermediate German I	3	Second-year German with emphasis on reading, composition, and conversation. (3-0) Prerequisites: ML 124 OR German Language Placement Score G223	ML 330	Advanced Mexican Readings	4	This course is offered as part of the human service program in Mexico, which is offered through the Sociology Department. Students read, discuss, and write about Mexican literature and poetry as well as newspaper and magazine articles while they live and do human service work in Mexico. Students enroll at the appropriate level. (4-0)
ML 224 GAH4	Intermediate German II	3	Study of German as a multicultural society. Continuation of ML 223. (3-0) Prerequisites: ML 223 OR German Language Placement Score G224	ML 331	Chicano Literature	4	A course on the essays, novels, poetry, and theater of Chicanos in the Southwest. Literature is included from both rural and urban areas with an emphasis on contemporary literature. (4-0) Prerequisites: ML 216
ML 235 GAH4	Intermediate Japanese I	4	Second-year Japanese with emphasis on grammar, composition, reading, listening, speaking, and writing in Hiragana, Katakana, and Kanji. (4-0) Prerequisites: ML 136	ML 332	German Culture	3	This is an inquiry course exploring the question of German national identity through an examination of German culture. The course includes a historical overview of important trends in German culture and politics, but concentrates on present-day unified Germany. (3-0)
ML 236 GAH4	Intermediate Japanese II	4	Continuation of ML 235 with greater emphasis on grammar, composition, reading, listening, and speaking. (4-0) Prerequisites: ML 235	ML 333	Adv German Comp and Conversation	3	The course focuses writing on contemporary topics and political issues in the German-speaking countries. It also improves students' competence in speaking and reading. Writing assignments include essays, creative writing, poems, interviews, reports and a research paper. Students evaluate texts according to content and style and will learn discriminating use of all aspects of language in their own work. (3-0) Prerequisites: ML 224
ML 247 GAH4	Intermediate French I	4	A course in second-year French with emphasis on grammar review, reading, writing, and conversation. (4-0) Prerequisites: ML 148 OR French Language Placement Score F247	ML 334	Topics in German Literature	3	Topics will vary; may be repeated for credit as long as a different topic is presented. (3-0) Prerequisites: ML 224
ML 248 GAH4	Intermediate French II	4	Continuation of ML 247. (4-0) Prerequisites: ML 247 OR French Language Placement Score F248				
ML 299	Individual Study	1-6	Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chair and Dean. 50 contact hours are the equivalent of one credit hour.				
ML 301	French Composition and Syntax	3	Emphasis on advanced reading, grammar, and composition. (3-0) Prerequisites: ML 248				
ML 303	French Conversation	3	Emphasis on speaking everyday French to increase students' abilities in maintaining ordinary conversations concerning current events and French culture. (3-0) Prerequisites: ML 248				

- ML 335 **Seminar in German** 3
Advanced reading and research in selected areas of German studies. (3-0)
Prerequisites: ML 224
- ML 336 **Survey of Spanish Lit** 4
A survey of Spanish Peninsular literature from the 10th century to the present. (4-0)
Prerequisites: ML 319 AND ML 320
- ML 337 **Survey Spanish American Lit** 4
A course in the literature of Spanish America from the colonial period through Romanticism, Realism, Naturalism, Modernism, and 20th century literature with emphasis on the Mexican Revolution and the contemporary Spanish American writers. (4-0)
Prerequisites: ML 319 AND ML 320
- ML 345 **Hispanic Cultures & Civilizations** 4
An integrated, interdisciplinary study in Spanish of the cultures of all Spanish-speaking countries as reflected in their history, language, philosophy, psychology, religion, and arts. (4-0)
Prerequisites: ML 319
- ML 346 **Topics: Hispanic Cultures** 4
An in-depth study of a specific topic related to the Spanish-speaking world, such as the Mexican Revolution, El Realismo Magico, the Cinema of Luis Bunuel, etc. (4-0)
Prerequisites: ML 345
- ML 350 **Spanish for the Professions** 4
The goals of this course are to familiarize students with the forms and vocabulary of Spanish for the professions such as Business Spanish, Spanish for Education, Spanish for the Sciences, Spanish for the Social Sciences, or other professions. Repeatable for credit as long as a different topic is presented. (4-0)
Prerequisites: ML 215 AND ML 216
- ML 405 **Seminar in French** 3
Advanced reading and research in selected areas of French Studies. Students may repeat the course for credit, provided the subject is different on each occasion.
Prerequisites: ML 247 OR ML 248
- ML 431 **Seminar in Chicano Literature** 4
A course on the essays, novels, poetry, and theater of Chicanos in the Southwest. Students choosing the seminar option may count this course toward the senior seminar requirement for the Spanish major. Senior Seminar students will be given alternative or additional assignments. Instructor permission required. (4-0)
Prerequisites: ML 320 OR ML 336 OR ML 337
- ML 496 **Seminar in Spanish** 4
Advanced study and research in selected topics in Hispanic Studies. This course may count toward the senior seminar requirement for the Spanish major. Senior Seminar students will be given alternative or additional assignments. Students may repeat the course for credit, provided the subject is different on each occasion. Instructor permission required. (4-0)
Prerequisites: ML 320 OR ML 336 OR ML 337
- ML 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

MOUNTAIN STUDIES

- MS 350 **Mountain Studies Internship** 1-4
This course provides a framework for service learning for students with governments, non-governmental organizations (NGOs), or businesses that deal with mountain ecosystems. Intern interests and organizational needs will be matched for mutual benefit. Course credit based on: 30 hours of work for each credit hour earned, completion of a learning contract, and completion of a final project. Instructor permission is required to register for this course.
- MS 496 **Mountain Studies Colloquium** 2-4
An interdisciplinary course, which offers a capstone experience for the Mountain Studies Minor, it is intended to engage students in an integrating project that synthesizes what they have learned in Mountain Studies coursework, field, internship, and service learning contexts. The project is student-constructed in consultation with several Mountain Studies faculty members and can be theoretical, applied or service oriented. Instructor permission is required to register for this course.

MUSIC

- MU 101 GAH1 **The Musical Experience** 3
A course in music appreciation designed for the general student. The intent of the course is to prepare students for informed and active listening experiences. (3-0)
- MU 102 GAH1 **Blues/Jazz/Rock** 3
This course is designed to be an introduction to popular music, which will lead the student toward intelligent, meaningful listening. It is assumed that listening to and understanding the content and structure of music as an art form will be beneficial in the development of a better understanding of music as part of human culture heritage. The format of the course is to survey varied examples of popular music while investigating the circumstances surrounding the performers and their composers. The course is intended to develop those aural skills that can provide a basis for critical and intelligent listening. (3-0)
- MU 103 **Class Instruction**
These classes are all designed to provide the student with the basis elements and techniques of performance in each of the media.
- MU 103A **Class Instr - Piano** 1
Piano Class (Mu 103 Piano) is specifically designed for the music major lacking in keyboard skills. Emphases include fluent reading of simple piano music and elementary technique. Successful completion with a grade of A or B satisfies Part II of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Consent of the instructor is required. (0-2)
- MU 103B **Class Instr - Voice** 1
This class is designed to provide the student with the basic elements and techniques of performance in voice. (0-2)
- MU 103C **Class Instr - Brass** 1
This class is designed to provide the student with the basic elements and techniques of performance in brass. (0-2)
- MU 103D **Class Instr - Woodwinds** 1
This class is designed to provide the student with the basic elements and techniques of performance in woodwinds. (0-2)
- MU 103E **Class Instr - Percussion** 1
This class is designed to provide the student with the basic elements and techniques of performance in percussion. (0-2)

MU 103F	Class Instr - Strings	1	This class is designed to provide the student with the basic elements and techniques of performance in strings. (0-2)	MU 110	Band	1	Designed to provide every student who plays a musical instrument the opportunity to pursue his or her musical interests. A variety of musical literature will be provided as well as the opportunity to perform in concert both on campus and on tour. Open to all students. Course is repeatable. (0-4)
MU 104	Piano Class Instruction II	1	Continuation of MU 103 Piano and mandatory for Music majors who desire to complete the Piano Proficiency Requirement in this manner. Emphases include performance of easier piano music, scales, triads, sevenths, and harmonization of simple melodies. Successful completion with a grade A or B satisfies part II of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. Consent of the instructor is required. (0-2) Prerequisites: MU 103	MU 111	Brass Ensemble	1	A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
MU 105	Concert Choir	1	Thorough study and performance each trimester of larger choral compositions. Open to all students. Course is repeatable. (0-3)	MU 112	Woodwind Ensemble	1	A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition. May include the use of ancient instruments where applicable. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
MU 106	Chamber Choir	1	An ensemble specializing in the performance of small scale choral works. Enrollment is by audition only. Course is repeatable for credit. Consent of the instructor and enrollment in concert choir required. (0-2)	MU 112Q	Woodwind Ensemble-Flute	1	
MU 107	Special Choirs	1	Requests for developing special choirs will be considered, upon written request to the Department of Music, as adjuncts to any on-campus organization. Under competent, organized supervision these choirs may meet and receive one credit during any one term. Open to all students. Course is repeatable. (0-2)	MU 112R	Woodwind Ensemble-Clarinet	1	
MU 108	Intro to Guitar Instruction	2	This course is designed to give every student, from absolute beginner to more experienced, a broad and thorough introduction to guitar playing. While emphasizing the reading of a variety of notation types, we explore proper playing technique, basic chord (including major, minor, and pentatonic) and some arranging techniques. We will work to read, practice, arrange and play/perform music. (1-3)	MU 112S	Woodwind Quintet	1	
MU 109A	Appl Music - Piano	1-2	Individual instruction scheduled, at the discretion of the instructor, either privately or in a small class. The course is open to all students. Students may register for two credit hours only with approval of the music faculty. Two credit hours are required for a Performance Concentration. Students who register for two credit hours will receive longer lessons in proportion to the amount of time spent in preparation. Placement audition, enrollment in Band, Concert Choir, or Orchestra (the large ensemble appropriate to the applied area) and consent of instructor required.	MU 112T	Saxophone Quartet	1	
MU 109B	Appl Music - Voice	1-2		MU 113	String Ensemble	1	A survey, through performance, of the literature written for the medium. Literature from the baroque period through the contemporary period will be studied and performed. Course is repeatable. Consent of instructor and enrollment in symphony orchestra required. (0-3)
MU 109C	Appl Music - Brass	1-2		MU 116	Accompanying	1	A course designed to provide ensemble and accompanying experience for piano students. Consent of piano instructor required. (0-3)
MU 109D	Appl Music - Woodwind	1-2		MU 117	Symphony Orchestra	1	Offered in conjunction with the San Juan Symphony Orchestra at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Tuesday evenings and the third is arranged at the convenience of the instructor and students. Open to all string students; wind and percussion students by audition only. Course is repeatable. Consent of instructor. (0-3)
MU 109E	Appl Music - Percussion	1-2		MU 117B	Symphony Orchestra B	1	Offered in conjunction with the Durango Youth Symphony at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Monday evenings and the third is arranged at the convenience of the instructor and students. Open to all string students; wind and percussion students by audition only. Course is repeatable. Consent of instructor. (0-3)
MU 109F	Appl Music - String	1-2		MU 118	Percussion Ensemble	1	A survey, through performance, of the literature written for this medium. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
MU 109G	Appl Music Guitar	1-2		MU 119A	Jazz Ensemble-Big Band	1	A survey, through performance, of the literature written for this medium. Course is repeatable. Consent of instructor and enrollment in band is required. (0-3)
MU 109H	Applied Music-Organ	1		MU 119B	Jazz Ensemble-Combo	1	A survey, through performance, of the literature written for this medium. Course is repeatable. Consent of instructor and enrollment in band is required. (0-3)
MU 109J	Appl Music - Jazz	1					

MU 120 GAH1	Fundamentals of Music	3			
Open to all students. A course in musical literacy intended to help laymen acquire the basic skills necessary to participate fully in musical activities. No prior musical background is assumed. (3-0)					
MU 123	Introduction to Jazz Improvisation	1			
The introduction to jazz improvisation course will focus on scale, melody, and chord studies and how they relate to a number of jazz standards. Implications of chord symbols and appropriate scale forms are developed. Ability to read music and/or chord symbols is required. Repeatable once for credit.					
MU 128	Theory and Musicianship I	5			
A course in basic musicianship designed to teach aural, analytical, and compositional skills. Daily sight-singing and ear-training activities will supplement study of scales, key, modes, triads, melody, tonality, cadences, functional harmony, and basic four-part writing including figured bass. Theory Placement Examination is required for admission. Open to music majors and minors only. Others must have consent of instructor. (5-0)					
MU 129	Theory and Musicianship II	5			
Continuation of Theory and Musicianship I, expanded to include nonharmonic tones, dominant sevenths, secondary dominants, and modulation. Formal analysis will include binary, ternary, rondo, theme and variations, chaconne/passacaglia, fugue, and sonata-allegro. Open to music majors and minors only. Others must have consent of instructor. (5-0)					
Prerequisites: MU 128					
MU 203	Piano Class Instruction III	1			
Continuation of MU 104 and mandatory for music majors who desire to complete the Piano Proficiency Requirement in this manner. Emphases include expanded performance of piano literature and elementary sight reading. Successful completion with a grade A or B satisfies Part III of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. (0-3)					
Prerequisites: MU 104					
MU 204	Piano Class Instruction IV	1			
Continuation of MU 203 and mandatory for music majors who desire to complete the Piano Proficiency Requirement in this manner. Students will be expected to perform compositions at the level of Clementi: Sonata, Op. 36 #1; Bach: Two Part Inventions, all scales, arpeggios, and cadences. Successful completion with at grade A or B satisfies Part IV of the Piano Proficiency Requirement. Piano class instruction includes group activities and individual instruction. (0-3)					
Prerequisites: MU 203					
MU 206	Vocal Diction	1			
This course is designed for vocal music students to learn IPA (international phonetic alphabet) and use it to improve English, Italian, French, and German pronunciations. Students must be enrolled concurrently in MU 109B, 209B, 309B, or 409B. (0-2)					
MU 209A	Appl Music - Piano	1-2			
MU 209B	Appl Music - Voice	1-2			
MU 209C	Appl Music - Brass	1-2			
MU 209D	Appl Music - Woodwind	1-2			
MU 209E	Appl Music - Percussion	1-2			
MU 209F	Appl Music - String	1-2			
MU 209G	Appl Music Guitar	1-2			
MU 209H	Applied Music-Organ	1			
MU 209J	Appl Music - Jazz	1			
MU 228	Theory and Musicianship III	5			
Extensive study of chromatically altered chords typical of the 19th century. Harmonic analysis, formal analysis, ear training, and compositions incorporating altered chords are primary emphases. Open to music majors and minors only. Others must have consent of instructor. (5-0)					
Prerequisites: MU 129					
MU 229	Theory and Musicianship IV	5			
Exploration of 20th century theoretical and compositional techniques. Examples will include derivatives from the end of the 19th century, nationalist influences, and serial and aleatoric music, extended techniques, and electronic music. Open to music majors and minors only. Other must have consent of instructor. (5-0)					
Prerequisites: MU 228					
MU 299	Individual Study	1-6			
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.					
MU 300	Men's Choir	1			
A survey, through performance, of the literature for male vocal ensemble. Course is repeatable. Consent of instructor and enrollment in Concert Choir required. (0-2)					
MU 305	Concert Choir	1			
Thorough study and performance of larger choral compositions. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders, conductor/managers, or accompanists. Course is repeatable. Open to all students. (0-3)					
MU 306	Chamber Choir	1			
An ensemble specializing in the performance of small scale choral works. Students are expected to take responsible roles in the ensemble such as: soloist, section leaders, conductor/managers, or accompanists. Course is repeatable. By audition only. Consent of instructor and enrollment in Concert Choir required. (0-3)					
MU 309A	Appl Music - Piano	1-2			
MU 309B	Appl Music - Voice	1-2			
MU 309C	Appl Music - Brass	1-2			
MU 309D	Appl Music - Woodwind	1-2			
MU 309E	Appl Music - Percussion	1-2			
MU 309F	Appl Music - String	1-2			
MU 309G	Appl. Music Guitar	1-2			
MU 309H	Applied Music-Organ	1			
MU 309J	Appl Music - Jazz	1			
MU 310	Band	1			
Designed to provide every student who plays an instrument the opportunity to pursue his/her musical interests. A variety of musical literature will be provided as well as the opportunity to perform in concert both on campus and on tour. Students are expected to take responsible roles in the ensemble such as soloist, section leaders, or conductor/managers. Course is repeatable. (0-4)					

- MU 311 **Brass Ensemble** 1
A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
- MU 312 **Woodwind Ensemble** 1
A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition. May include the use of ancient instruments where applicable. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
- MU 312Q **Woodwind Ensemble-Flute** 1
- MU 312R **Woodwind Ensemble-Clarinet** 1
- MU 312S **Woodwind Quintet** 1
- MU 312T **Saxophone Quartet** 1
- MU 313 **String Ensemble** 1
A survey, through performance, of the literature written for this medium. Literature from the baroque period through the contemporary period will be studied and performed. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in symphony orchestra required. (0-3)
- MU 314 **Meth & Prin Teach Vocal Music** 3
A course designed to provide music majors with contemporary teaching skills and techniques for secondary vocal/choral music, including vocal pedagogy, classroom management, rehearsal preparation, and audition and placement procedures. This course includes practicum experience. (3-0)
- MU 315 **Meth Prin Teach Instrumental Music** 3
A course designed to provide Music majors with contemporary teaching skills and techniques in the teaching of instrumental music in the public schools, including program development, classroom management, rehearsal preparation and use of audio/visual materials. This course includes practicum experience. (3-0)
- MU 316 **Music in the Elementary School** 3
A course designed for music teachers to provide practical skills in pedagogy, lesson planning, folk music, dance/movement, musical literacy, and classroom management. Attention will be given to the philosophies of Kodaly, Orff, and Dalcroze within a laboratory setting often involving elementary-age children from local schools. Open to non-majors by instructor permission. This course includes practicum experience. (3-0)
- MU 317 **Symphony Orchestra** 1
Offered in conjunction with the San Juan Symphony at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Tuesday evenings and the third is arranged at the convenience of the instructor and students. All string students are invited; wind and percussion students by audition only. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor. (0-3)
- MU 317B **Symphony Orchestra B** 1
Offered in conjunction with the Durango Youth Symphony at no extra fee. This course provides an opportunity for the study and performance of major orchestral works. Two hours of rehearsal are held on Monday evenings and the third is arranged at the convenience of the instructor and students. Open to all string students; wind and percussion students by audition only. Course is repeatable. Consent of instructor. (0-3)
- MU 318 **Percussion Ensemble** 1
A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
- MU 319 **Jazz Ensemble** 1
A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band required. (0-3)
- MU 319A **Jazz Ensemble-Big Band** 1
A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band is required. (0-3)
- MU 319B **Jazz Ensemble-Combo** 1
A survey, through performance, of the literature written for this medium. Students are expected to take responsible roles in the ensemble such as soloists, section leaders, or conductors/managers. Course is repeatable. Consent of instructor and enrollment in band is required. (0-3)
- MU 320 **Mallet Ensemble** 1
Keyboard Mallet Ensemble is a class in which repertoire, specifically written for mallet ensemble, will be rehearsed, learned, and performed. Transcriptions from the Baroque, Classical, Romantic, Contemporary, and Jazz periods will be assimilated with particular attention devoted to music of the ragtime era, post World War I through the 1940s. We will also perform music from Africa, Mexico, and Guatemala where the marimba is the national instrument. Consent of instructor and enrollment in band or choir required. (0-3)
Prerequisites: MU 105 OR MU 110
- MU 323 **Advanced Jazz Improvisation** 1
The advanced jazz improvisation course will focus on scale and chord studies and how they relate to a number of jazz standards. The class will listen and transcribe solos of famous artists to develop the language and facility, while increasing the student's understanding of jazz and its history. Knowledge of major, minor, and dominant scales is required. Repeatable once for credit. (0-2)
- MU 324 **Baroque Ensemble** 1
A survey, through performance, of music written during the 17th and 18th centuries. Baroque performance practices will be studied through the performance of both instrumental and vocal repertoire. Special attention will be given to literature, style, ornamentation, improvisation, and basso continuo. Repeatable for credit. (0-2)
- MU 331 **Music History I** 3
Study of the history of music from classical antiquity to 1750. (3-0)
- MU 332 **Music History II** 3
Study of the history of music from 1750 through the 21st century. (3-0)

MU 336 **Jazz History** 3
 An in-depth look at jazz history from its early roots in brass band, blues, classical and Dixieland to modern styles. Explores major jazz trends, and contributors to each style. Extensive listening and analysis will be required to develop an understanding of improvisation techniques and harmonic trends. (3-0)
 Prerequisites: MU 102 OR MU 129

MU 337 **Survey of Non-Western Music** 3
 This course is designed to acquaint students with the vast amount of music from non-Western cultures. Topics include the music of Africa, India, China, Japan, Southeast Asia, South America and the American Indians. Open to all students. (3-0)

MU 342 **Topics in Music Business** 2
 Topics in Music Business will introduce students to the business aspects of the music industry including profit and non-profit arts organizations, grant writing, fund-raising, management, concert production, and the recording industry. Area arts professionals will be invited as guest lecturers. Students will create a mock organization and develop all aspects of the business for a final project. (2-0)

MU 343 **Technology & Music Industry** 2
 Student musicians will be made aware of current technology by receiving hands-on instruction in topics such as sound reinforcement, recording, editing, MIDI, composition tools, web development and computer teaching aids. The material will be approached from many points of view so that the students involved will become more adept at using music technology. (2-0)
 Prerequisites: MU 229

MU 349 **Conducting I** 2
 A course in basic instrumental and choral conducting including baton technique, score reading, and various cueing and rhythmic aspects concerned with ensemble control. Piano proficiency requirement. (3-0)
 Prerequisites: MU 129

MU 350 **Conducting II** 2
 Continuation of Conducting I. Conducting techniques in addition to directing larger musical scores and advanced techniques. (3-0)
 Prerequisites: MU 349

MU 358 **Piano Pedagogy and Literature** 1
 Students will study method books, pedagogical philosophies, approaches to teaching various ages and levels, and the business of studio development. Thorough listening and score analysis will also be included. (1-0)

MU 360 **Advanced Musicianship** 1
 This course is designed to improve listening, error detection, sight-reading and musicianship. Musicians must have a well-developed ear to study scores and teach. Each week the course will focus on an aspect of musicianship. Classes will include sight-reading, dictation, intervals, and strategies for listening. Special attention will be given to requirements for sophomore proficiency and admittance into student teaching. (1-0)

MU 409A **Appl Music - Piano** 1-2

MU 409B **Appl Music - Voice** 1-2

MU 409C **Appl Music - Brass** 1-2

MU 409D **Appl Music - Woodwind** 1-2

MU 409E **Appl Music - Percussion** 1-2

MU 409F **Appl Music - Strings** 1-2

MU 409G **Appl Music Guitar** 1-2

MU 409H **Applied Music-Organ** 1-2

MU 409J **Appl Music - Jazz** 1-2

MU 415 **Lit/Converstn:Writ About Music** 3
 The purpose of this course is to help students develop an understanding of what constitutes literacy within the discipline of music, and to integrate critical analysis with writing and creative performance. Students will be required to read and discuss examples of scholarly writing that will include program notes, journal articles, grant proposals, and concert reviews. They will then be required to practice and refine their own writing skills using these formal models. The process will include multiple drafts and extensive feedback as well as individual guidance and instruction. The course will fulfill the Group W Writing requirement for music majors. (3-0)

MU 423 **Orchestration** 1
 A technology-based course designed to equip Music majors with the skills and techniques necessary for arranging for instrumental ensembles. Piano proficiency requirement. (2-0)
 Prerequisites: MU 229

MU 436 **Jazz Arranging** 2
 This course is designed for the student majoring in Jazz Studies. Specific arranging techniques for small combos and big band styles will be explored, culminating in live performance of student compositions. (2-0)
 Prerequisites: MU 423

MU 496 **Senior Seminar** 2
 Advanced study and research in music and musical performance. The student will prepare and perform a senior recital approved by the applied area instructor and the department chair. (2-0)

MU 499 **Independent Study** 1-6
 Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chair and Dean. 50 contact hours are the equivalent of one credit hour.

NATIONAL STUDENT EXCHANGE

NSE 375 **National Student Exchange** 12-18
 The National Student Exchange is an association of 170 colleges and universities that have joined together to provide exchange opportunities for their students within the United States, Canada, Puerto Rico, the Virgin Islands, and Guam. In-state Fort Lewis College students have option of either paying home school tuition and fees or in-state tuition of host institutions. Out-of-state students pay Fort Lewis College tuition and fees. Instructor permission. Repeatable.

PHYSICAL EDUCATION

Note: PE courses are NOT approved for guaranteed transfer to other Colorado colleges and universities.

PE 1110 **Aquacize** 1
 Aquacize is a fun 45-minute exercise activity class performed to music that is designed to enhance the student's cardiovascular endurance, strength and flexibility. Basic aquatic fitness concepts and techniques will also be presented. (0-2)

PE 1120 **Swimming - Beginning** 1
 The course will introduce the student to techniques required to swim a number of basic strokes. Steps will be taken to set aside the fear of water and introduce the student to safety procedures. (0-2)

PE 1121	Swimming - Intermediate	1	This course is designed to improve your skill and fitness through a series of varied swim instruction sessions, practice and workouts. (0-2)	PE 1422	Desert Mountain Biking	1	This course covers basic to mid-level mountain bike riding techniques, including, but not limited to, bike handling, climbing, descents, riding position, diet, endurance, stretching, safety and bike maintenance. (0-2)
PE 1122	Swimming for Fitness	1	Swimming for fitness is a fun aquatic activity class designed to enhance the student's cardiorespiratory endurance, strength, and flexibility while moving through water. Students will learn various aquatic training techniques that can be used to improve or maintain their current level of physical fitness. (0-2)	PE 1423	Local Mountain Biking	1	This course covers basic to mid-level mountain bike riding techniques, including, but not limited to, bike handling, climbing, descents, riding position, diet, endurance, stretching, safety and bike maintenance. Biking on local trails only. (0-2)
PE 1216	Social Dance	1	This course is designed to introduce students to the basic steps, turns, etiquette, music, rhythm and style of social dance. (0-2)	PE 1430	Day - Hiking	1	An opportunity to explore the local area as it applies to the hiking trails near the Fort Lewis College campus and Durango. (0-2)
PE 1310	Fitness - Circuit Training	1	A course designed to develop cardiovascular fitness levels via walking, running, circuit training, rope jumping, interval training, plyometrics, swimming and other exercises. (0-2)	PE 1440	Flycasting	1	This course will introduce the student to the sport of fly-fishing, including equipment and techniques. (0-2)
PE 1315	Stretching for Flexibility	1	This course is designed to provide the student with an understanding of the principles of stretching for full-body flexibility and active participation in a total body personalized stretching program. (0-2)	PE 1450	Kayaking - Beginning	1	Basic kayaking skills including, but not limited to, paddling strokes, rolling and assisted rescues, self-rescue, basic hydrology and river safety, and equipment review. (0-2)
PE 1330	Fitness - Running	1	The course will provide the student with introductory concepts of an aerobic running exercise program to satisfy their individual fitness and activity needs. (0-2)	PE 1451	Kayaking - Intermediate	1	This course will review kayak rolling and paddling skills in the pool, then will concentrate on applying these skills on the river. Reading whitewater, identifying river features, safety review, kayak ferry angles, eddy turns, peel outs, surfing, hole riding/bracing will be covered. Precise boat control will be emphasized. Instructor permission is required. (0-2)
PE 1350	Fitness - Step Aerobics	1	A 45-minute exercise class performed to music that is designed to enhance the student's cardiovascular endurance, strength and flexibility. Basic aerobic conditioning and fitness techniques will also be presented. (0-2)	PE 1460	Rock Climbing	1	This course covers basic beginning rock climbing skills including, but not limited to, knots, anchor systems, belay/climbing commands, rock climbing techniques (face, friction, crack), belaying (mechanical, hip, lowering) rappelling, equipment review, and related safety issues. (0-2)
PE 1360	Fitness - Triathlon Training	1	This course is designed to instruct students in the basics of triathlon training and competing. (0-2)	PE 1470	SCUBA Diving	1	In this half-semester course, students acquire the knowledge and skills needed to safely explore the underwater world. The class has both a classroom and pool component, and finishes with two days of diving in one of our local lakes. Students who successfully complete the course are eligible for certification by the Professional Association of Diving Instructors (PADI). (0-2)
PE 1370	Fitness - Walking	1	The course will provide the student with introductory concepts of an aerobic walking program to satisfy their individual fitness and activity needs. (0-2)	PE 1481	Skiing - Cross Country	1	This course introduces the student to the fundamentals and techniques of Nordic skiing and will provide an opportunity for students to enhance their Nordic skiing skills and overall physical condition. (0-2)
PE 1380	Fitness - Weight Training	1	The course will provide the student with knowledge of current strength training techniques applied to personal fitness goals and methods to build an appropriate weight training program to satisfy their individual needs. (0-2)	PE 1520	Badminton	1	The course will provide the student with basic knowledge and techniques of the game of badminton as an exercise program to satisfy their individual fitness and activity needs. (0-2)
PE 1390	Fitness - Yoga	1	To explore the practice of Hatha Yoga at a beginning level and cultivate the balance between flexibility, strength, and endurance in body, mind, and spirit. (0-2)	PE 1530	Basketball	1	This course introduces the student to the basic skills, rules, and strategies of basketball. (0-2)
PE 1391	Fitness - Intermediate Yoga	1	To explore the practice of Hatha Yoga at an intermediate level and cultivate the balance between flexibility, strength, and endurance in body, mind, and spirit. Instructor permission is required. (0-2)	PE 1555	Golf - Beginning	1	Develop the basic fundamentals of your golf swing. Develop a basic swing pattern. Learn a basic knowledge of the rules of golf. Learn the basic etiquette of golf. Develop an awareness of fundamental strategies in course management. (0-2)
PE 1410	Backpacking & Camping	1	The course will provide the student with basic campcraft skills (camp selection, hygiene, cooking, stoves, leave no trace (LNT) principles, shelters), hiking, route finding, map and compass skills, and safety and equipment review. Students must also be able to hike with a 45 lb. pack up to 6 miles/day. (0-2)				

PE 1571 **Recreational Games** 1
 This course is designed to expose students to a variety of recreational games that are generally not covered in our regular physical activity class offerings. Activities to be included are: deck tennis, indoor hockey, cageball, bowling, horseshoes, whiffle softball, dodgeball, croquet, ping-pong, shuffleboard, billiards, darts, hopscotch, pickleball, etc. Some competitive and cooperative activities will be introduced. (0-2)

PE 1580 **Self Defense** 1
 Active participation in basic self-defense skills, prevention and awareness. (0-2)

PE 1610 **Soccer - Beginning** 1
 A course designed to develop the basic skills, rules knowledge, and strategy involved with soccer. (0-2)

PE 1620 **Tennis - Beginning** 1
 This course will introduce the student to the game of tennis. This format will include instruction and practice in skills, knowledge of rules and scoring. (0-2)

PE 1622 **Ultimate Frisbee/Team Handball** 1
 The course will introduce the student to the basic skills involved in Ultimate Frisbee, an outside grass surface activity and Team Handball, an indoor court game. Both games require the ability and willingness of continuous activity.

PE 1630 **Volleyball - Beginning** 1
 This course will provide student with the fundamental skills in volleyball, including knowledge of volleyball rules through game-play and written exams. (0-2)

PE 1635 **ACT/Students/Phys Disabilities** 1
 Individualized physical activity programs for students with physical disabilities in physical and motor fitness, fundamental motor skills and patterns, sports skills and aquatics. Instructor permission is required. (0-2)

PE 1636 **ACT/Students/Phys Disabilities** 1
 Individualized physical activity programs for students with physical disabilities in physical and motor fitness, fundamental motor skills and patterns, sports skills and aquatics. Instructor permission is required. (0-2)

PE 1710 **Varsity Basketball - Men** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1711 **Varsity Basketball - Women** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1720 **Varsity Crosscountry - Men** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1721 **Varsity Crosscountry - Women** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1730 **Varsity Football** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1740 **Varsity Golf** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1750 **Varsity Soccer - Men** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1751 **Varsity Soccer - Women** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1755 **Varsity Softball** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PE 1760 **Varsity Volleyball** 1
 Students must be on a varsity athletic roster. Instructor permission required. (0-2)

PHILOSOPHY

PHIL 141 GAH3 **Introduction to Philosophy** 4
 An introduction to the philosophical enterprise through discussion and analysis of representative readings from the history of philosophy. Issues considered include the nature of reality, the relation of mind and body, the possibility of proving that God exists, the nature and origin of morality and beauty, and the relation of knowledge to experience. (4-0)

PHIL 151 **Film and Philosophy** 4
 An examination of the ways in which philosophy is manifested in the making and content of film. This course will include the viewing of several films that portray philosophical themes on the nature of humor, drama, and the fear in contemporary film and attempt to answer questions regarding the nature of voyeuristic emotional catharsis in the making of the human being. Finally, the course hopes to address issues of cultural diversity by looking at the way various Western and non-Western cultures address these issues. The course will also include philosophical readings on film and the nature of philosophical problems. (4-0)

PHIL 244 **Chinese Philosophy** 3
 A study of Confucianism, Taoism, and Buddhism, with consideration of some dissenting views of these dominant schools of Chinese thought, such as Maoism and Legalism. We will investigate the theories of human nature, knowledge, and reality embraced by these philosophies, as well as their conceptions of ethics and politics. This course is the same as RS 244; credit will be given for only one of these courses. (3-0)
 Prerequisites: (COMP 150 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent OR GCO2)

PHIL 251 GAH3 **Moral Philosophy** 4
 A broad review of the history of attempts since classical Greece to identify morality and to establish standards for making and assessing moral judgments. (4-0)

PHIL 252 **Environmental Ethics** 4
 This course offers an overview of world environmental problems, focuses on conceptual investigations into their historical, social, political and cultural sources, examines various methods of resource conversation, and finally attempts to envision a philosophy of nature based on "land ethic." (4-0)

PHIL 261 **Philosophy of Religion** 4
 An examination of different philosophical approaches to problems raised by religion. Readings are selected from sources representing widely differing points of view, e.g., those of phenomenology, feminism, and liberation theology. This course is the same as RS 261; credit will be given for only one of these courses. (4-0)

- PHIL 264 **Social & Political Philosophy** 4
This course offers an introductory, selective review of major theories and empirical studies, from classical to contemporary, of social relations and human interactions while exploring the political contexts in which social philosophies emerge. It also provides an overview of how organization of governments has been conceptualized and practiced, how law and policy originate and evolve, and how social and political ideals are formulated, transformed, and institutionalized. (4-0)
- PHIL 271 **Logic** 4
A broad treatment of different methods of assessing the validity of deductive and inductive arguments. The course covers syllogistic logic, elementary truth-functional logic, quantification and brief discussions of informal logic and inductive logic. (4-0)
- PHIL 274 **Ancient/Medieval Philosophy** 4
An examination of the history and philosophy from the origins of scientific thought in Asia Minor through the synthesis of Christianity and Greek philosophy in the thought of St. Augustine and the medieval scholastics. A major emphasis of the course will be the systems of Plato and Aristotle, which provide many of the roots of modern thought. This course is a suitable beginning course in philosophy. (4-0)
- PHIL 281 **Theory of Knowledge** 4
This course explores philosophical controversies concerning knowledge and skepticism: What is truth? What is it for a belief to be justified? Do we know anything? Does knowledge represent objective reality or merely a culturally constructed conception of reality? Traditional and current answers to these and related questions are scrutinized. (4-0)
- PHIL 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- PHIL 305 **Writing Philosophy** 4
An introduction to the techniques, conventions, and styles of philosophical writing through the critical reading and analysis of selected books and journal articles on a topic central to the field. (4-0)
Prerequisites: (COMP 126 OR COMP 150) AND ([LIB 150 OR LIB 150 EQUIVALENT OR GCO2])
- PHIL 320 **Indigenous Worldviews** 4
A survey of selected regional belief systems outside the major religious traditions treated in Phil 321. Emphasis is on philosophical foundations of religious cultures native to the Americas, Africa, Asia, Australia, and Old Europe. Special attention is given to the mythic and other symbolic expressions of "archaic" consciousness in contemporary societies. This course is the same as RS 320; credit will be given for only one of these courses. (4-0)
- PHIL 321 **World Religions** 4
A study of the nature and history of the major contemporary religions of the world. This course is the same as RS 321; credit will be given for only one of these courses. (4-0)
- PHIL 328 **Philosophy of Science** 4
An examination of the scope, structure, methodology, and spirit of science with special attention to such topics as the relation between the presuppositions and the conclusions of science, the nature of scientific revolutions and the social responsibilities of the scientist. (4-0)
- PHIL 352 **Ecology & Morality** 4
An in-depth focus on contemporary theories and practices, including myth and ritual, which cosmologically integrate moral, social, political, and cultural philosophies with scientific ecologies. Recent academic efforts by regional thinkers and scholar/activists of color will also be reviewed. (4-0)
Prerequisites: PHIL 252
- PHIL 361 **Philosophy of Art** 4
An examination of nature and purposes of art through the study of several traditional and contemporary philosophies of art such as those of Plato, Aristotle, Marx, Tolstoy, Collingwood, and Merleau-Ponty. Topics include nature of the art object, the distinction between art and craft, the role of imitation, representation, expression and creativity, the social function and responsibility of the artist, and the nature of aesthetic experience. (4-0)
- PHIL 363 **Philosophy of Hist & Culture** 4
An examination of the nature and methodology of historical knowledge and various conceptions of culture through the study of several traditional and contemporary philosophies of history and culture. Readings will include recent work from Africa and the Americas as well as traditional European perspectives. Consent of instructor. (4-0)
- PHIL 365 **Philosophies of Feminism** 4
An examination of gender bias in its various guises, such as androcentrism, gender polarization, and biological essentialism. Explanations of the source and maintenance of sexism are explored through feminist theories: liberal, radical, Marxist, existential, psychoanalytic, and postmodern. Feminist theory itself is critically evaluated. (4-0)
Prerequisites: (COMP 150 OR COMP 126) AND (LIB 150 OR LIB 150 EQUIVALENT OR GCO2)
- PHIL 377 **Contemp European Philosophy** 4
An examination of trends and issues in 20th century continental philosophy. Readings will focus on the development of phenomenology and existentialism, and on their contributions to existential Marxism, structuralism, and deconstructionism. (4-0)
- PHIL 379 **Modern Phil:17 & 18 Centuries** 4
An examination of the roots of the Enlightenment, including studies of rationalism, the origins of scientific thought, ethical modes of thought grounded in reason and empiricism, and social and individual notions of self-identity. This course examines the origins of enlightenment as a rebirth of the Renaissance and as the beginnings of contemporary Western notions of metaphysics, epistemology, and ethics. Thinkers to be discussed will include Descartes, Spinoza, Hume, Locke, Berkeley, Kant, Rousseau, and others of the period. (4-0)
- PHIL 380 **19th Century Philosophy** 4
In this course students will examine the major movements in 19th century European and American philosophy. The course will focus on the work of Hegel and its influence on Marx, Nietzsche, and Kierkegaard. In addition, some attention will be given to the developments of American pragmatist philosophy. (4-0)
Prerequisites: PHIL 274 OR PHIL 379
- PHIL 381 **Metaphysics** 4
An examination of traditional and contemporary attempts to understand the nature of reality. Consent of instructor. (4-0)
- PHIL 382 **Philosophies of the Southwest** 3
An examination of the various philosophical underpinnings of multicultural Southwest. The course will also examine the kinds of misunderstandings which can emerge from the interactions of these cultures when cultural philosophical assumptions go unexamined. (3-0)

PHIL 384 **Philosophy of Mind & Language** 4
This course explores puzzles raised by the existence of minds, making special use of contemporary theories of meaning in order to address them. What is a mind? How are minds related to bodies? What is it to have thoughts? Is language necessary for thinking? How does language represent reality? How do we know what others mean by their words? (4-0)

PHIL 451 **Studies in Great Philosophers** 4
An examination in depth of the writings of a major philosopher such as Plato, Aristotle, Kant, Marx, Heidegger, or Sartre. This course may be repeated as long as the topics are different. (4-0)

PHIL 496 **Senior Seminar** 4
Advanced study and research in selected topics. (4-0)

PHIL 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

PHYSICAL SCIENCE

PHSC 100 **Physical Science Laboratory** 1
Work covers experiments in the fields of physics. Laboratory techniques and scientific processes are emphasized. Students cannot receive credit for both PhSc 100 and PhSc 106. (0-2)

PHSC 105 **Physical Sciences** 3
With a strong focus on concepts rather than mathematics, this course explores the history and methods of science. Fundamental theories of physical science are explored, including a rare chance for students from all majors to get a glimpse of the astounding scientific revolutions of the 20th century. (3-0)

PHSC 106 GSC1 **Physical Sciences** 4
With a strong focus on concepts rather than mathematics, this course explores the history and methods of science. Fundamental theories of physical science are explored, including a rare chance for students from all majors to get a glimpse of the astounding scientific revolutions of the 20th century. This course includes a weekly lab. (3-2)

PHSC 115 GSC1 **Environmental Phys Science** 4
Students will explore foundational concepts in the physical sciences, focusing on how these concepts provide a better understanding of current environmental issues. The accompanying laboratory will stress scientific methodology and reinforce concepts learned in class. It is required that it be taken at the same time as the lecture. (3-2)

PHSC 200 **Introduction to Astronomy Lab** 1
Work is aimed toward a greater appreciation of the universe through selected observational laboratory experiments in astronomy. Students cannot receive credit for both PhSc 200 and PhSc 206. (0-2)

PHSC 205 GSC2 **Introduction to Astronomy** 3
A course for students interested in elementary astronomy. A survey of modern observations of astronomy including the moon, planets, stars, and their formations. The history and social implications of astronomy are also addressed. Students cannot receive credit for both PhSc 205 and PhSc 206. (3-0)

PHSC 206 GSC1 **Introduction to Astronomy** 4
A course for students interested in elementary astronomy. A survey of modern observations of astronomy including the moon, planets, stars, and their formations. The history and social implications of astronomy are also addressed. PhSc 206 has a required lab. Students cannot receive credit for both PhSc 205 and PhSc 206 or for both PhSc 200 and PhSc 206. (3-2)

PHYSICS

PHYS 201 **Physics - Non Calculus I** 4
An introductory course in physics, covering the basic concepts of mechanics (motion, energy, fluids, materials), heat and thermodynamics, wave motion and sound. Calculus is not used. The course is intended to meet college physics requirements and also satisfy the curiosity of all students whose major interest is not in engineering, physical science or mathematics. Students who take Physics 217 will not receive credit toward graduation for Phys 201. This course includes an introductory physics laboratory with experiments in mechanics, heat and sound. (3-2)

PHYS 202 **Physics - Non Calculus II** 4
An introductory course in physics covering the basic concepts of electricity, magnetism and optics. Calculus is not used. Students who take Phys 218 will not receive credit toward graduation for Phys 202. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics and magnetism. (3-2)
Prerequisites: PHYS 201

PHYS 217 GSC1 **Physics - Science & Engr I** 5
An introductory course in physics covering the basic concepts of classical mechanics (motion, energy, fluids, materials), heat and thermodynamics, wave motion and sound. Differential and integral calculus is used throughout the course. Phys 217 is required of engineering students and strongly recommended to all science majors. This course includes an introductory physics laboratory with experiments in mechanics, heat and sound. (4-2)
Prerequisites: MATH 221

PHYS 218 **Physics - Science & Engr II** 5
An introductory course in physics covering the basic concepts of electricity, magnetism and optics. Phys 218 is required of engineering students and strongly recommended to all science majors. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics and magnetism. (4-2)
Prerequisites: PHYS 217 AND MATH 222

PHYS 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chair and Dean. 50 contact hours are the equivalent of one credit hour.

PHYS 301 **Introduction to Electronics** 3
A survey course of the theory and design of analog circuits with discrete and integrated elements, and devices used in scientific instrumentation. Includes the study of linear op-amp circuits, comparators and controls, oscillators, active filters, diode applications, transistors, and transducer circuits. (2-2)
Prerequisites: PHYS 218

PHYS 320 **Modern Physics** 3
A study in the modern theories of atomic, nuclear and particle physics that have developed since 1900. An introduction to special relativity and elementary quantum mechanics is included. (3-0)
Prerequisites: PHYS 202 OR PHYS 218

PHYS 340 **Optics** 4
A study of classical and modern theories of geometrical and physical optics including matrix methods for optical systems, diffraction theory and an introduction to Fourier optics. (3-3)
Prerequisites: MATH 222 AND (PHYS 202 OR PHYS 218)

PHYS 354 **Theoretical Mechanics** 3
 The theoretical formulation of the kinematics and dynamics of particles and rigid bodies with an introduction to Lagrangian and Hamiltonian mechanics. An introduction to vector and tensor analysis is also included. (3-0)
 Prerequisites: MATH 223 AND (PHYS 202 OR PHYS 218)

PHYS 361 **Prin Electricity & Magnetism** 4
 The mathematical theory of static electric and magnetic fields, time-dependent fields and electromagnetic radiation. (4-0)
 Prerequisites: (PHYS 202 OR PHYS 218) AND MATH 327

PHYS 370 **Heat and Thermodynamics** 3
 A study of classical and statistical thermodynamics. Includes the first and second laws of thermodynamics and their applications, and classical and quantum statistics. (3-0)
 Prerequisites: MATH 223 AND (PHYS 201 OR PHYS 217)

PHYS 380 **Advanced Physics Laboratory I** 1
 Work will stress experiments in modern physics with emphasis on electronic instrumentation and subsequent data analysis. (0-3)
 Prerequisites: PHYS 320

PHYS 381 **Advanced Physics Laboratory II** 1
 Work will stress experiments in electricity and magnetism with emphasis on data collection and analysis. (0-3)
 Prerequisites: PHYS 320

PHYS 397 **Writing Techniques in Physics** 3
 Advanced study, research and writing in selected topics. Designed to train students to write proposals, research reports and semi-technical description in the field of physics. (3-0)

PHYS 400 **Science and Human Values** 2
 A course designed to investigate the interaction between science, technology, and society. The course includes interdisciplinary material. Scientific, social, and human values will be discussed. (2-0)

PHYS 420 **Quantum Mechanics I** 3
 An introduction to the formulation of wave mechanics including potential wells, the harmonic oscillator, the hydrogen atom, angular momentum and spin, and operator methods. (3-0)
 Prerequisites: MATH 223 AND (PHYS 202 OR PHYS 218)

PHYS 421 **Quantum Mechanics II** 3
 A continuation of the study of quantum systems via approximation techniques, theory of many electron atoms, identical particles and spin. (3-0)
 Prerequisites: PHYS 420

PHYS 454 **Advanced Topics in Physics** 1-4
 Advanced material in various areas of physics at the senior level. The course will treat one area of physics, such as nuclear physics, thermal physics, statistical physics or solid state physics. Class schedules will indicate the area. This course may be repeated for credit if topics are different.

PHYS 496 **Senior Seminar** 2
 Advanced study and research in selected topics. Consent of instructor. (2-0)

PHYS 497 **Senior Seminar - Research** 2
 Individual research project conducted under the supervision of one or more faculty members. The student will present the results in a written report and orally before the department faculty and students. A continuation of PHYS 496. (0-4)
 Prerequisites: PHYS 496

PHYS 499 **Independent Study** 1-6
 Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

POLITICAL SCIENCE

PS 101 GSS1 **Intro to Political Science** 4
 An introduction to the study of politics; an examination of the relationship of society and government; and a study of the nature of the state, of the forms of rule evolved from the past and of contemporary political systems. (4-0)

PS 110 GSS1 **U. S. National Government** 4
 A study of the policies, procedures, politics and problems of the U.S. national government. (4-0)

PS 120 GSS1 **State and Local Government** 4
 A study of the history, nature, organization and operation of state and local government in the United States. (4-0)

PS 130 **Intro to Environmental Policy** 4
 This introductory course examines the political and policy dimensions of environmental protection. Topics include ecology and normative assumptions; rationales for government intervention; political actors and institutions; policy analysis and change. The primary focus is domestic; coverage is expanded to assess global environmental issues, particularly in terms of cultural considerations; scientific determinants; and controversies related to risk assessment and scientific uncertainty. (4-0)

PS 140 **Intro Law & Legal Systems** 4
 An introduction to legal systems' treatment of disputes between citizens, citizens and business and citizens and government, with special emphasis on disputing in the legal system of the United States. Consideration given to the influence of legal systems on competition for a society's benefits. (4-0)

PS 205 GSS1 **Environmental Politics** 3
 An introduction to a wide range of global environmental issues. Global warming, overpopulation, natural resource depletion, deforestation in Latin America, Africa and Asia, potable water crises in Asia and desertification in Africa are all indicators of ongoing major environmental changes. Global environmental change raises profound moral, political and economic questions with which society has only begun to grapple. This course addresses regional and international environmental problems and proposes solutions. (3-0)

PS 241 **Intro Criminal Justice Systems** 4
 The nature of crime, the role of police, attorneys, courts and corrections in our criminal justice system. (4-0)

PS 250 **Intro to Political Analysis** 4
 Analysis of contemporary behavioral theories and research methods of politics and preparation for critical reading of professional literature. Writing intensive course. (4-0)
 Prerequisites: PS 101 AND (COMP 150 OR COMP 126 OR COMP 250 OR FCS 100 OR GS 151)

PS 251 **Advanced Research Methods** 4
 An advanced course in the methods and tools of research including both qualitative and quantitative approaches. Emphasis is on the design of political research, data collection techniques, statistical analysis and interpretation. Writing intensive course. (4-0)
 Prerequisites: PS 250

- PS 280 GSS1 **Intro To Comparative Politics** 4
A comparative study of the political systems of selected modern states. An emphasis is placed on the historical, cultural, social and economic environments as well as on political structures, participation, policymaking and evaluating the effectiveness of political action. (4-0)
- PS 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- PS 300 **Religion and Politics** 4
A comparative exploration of dominant and minority political interactions in social and cultural settings. This course examines how, and with what consequences, religion and politics interact as frameworks for freedom and oppression in Central America, Asia and the United States. (4-0)
- PS 310 **Public Opinion and Action** 4
An empirical inquiry into the dynamics of political activity in the United States, with emphasis on the electorate and roles of political parties, the news media, public opinion and political interest groups. (4-0)
- PS 320 **International Politics** 4
An examination of the international struggle for power, with special emphasis on nationalism, economic objectives, armaments, multinational corporations and North-South issues. (4-0)
Prerequisites: PS 101
- PS 322 **International Political Econom** 4
A study of the interplay of economics and politics in the world arena. The course covers a wide range of political and economic issues and concepts, and introduces students to the many players at the international level (financial institutions, multinational organizations, nation-states, etc.). The course also provides a theoretical background to issues of political and economic interaction at the international level. PS 320 recommended. (4-0)
- PS 325 **Middle East Politics** 4
An examination of the forces shaping the governments and politics of modern Arab states in North Africa and Southwest Asia, with emphasis on Islam, Islamist politics, regional geopolitics and current economic, natural resource and social issues affecting the Arab world. (4-0)
- PS 330 **Government Performance** 4
Examines the importance of government agencies in the political system with a special emphasis on their performance. Examines the key differences in public and private organizations and how government performance can be enhanced. (4-0)
- PS 337 **U. S. Foreign Policy** 4
A study of the United States' foreign policy from the American Revolution to the present day, with emphasis on current policy and how it is made. (4-0)
- PS 340 **Constitutn Law: Bill Of Rights** 4
Rights of citizens as elaborated through the Bill of Rights and Fourteenth Amendment to include freedom of speech and press, freedom of religion, privacy, discrimination and criminal rights. Recommended for Political Science majors and advanced general students. (4-0)
- PS 341 **Const Law: Fedrlsm Separatn Pwr** 4
Powers and limitations of the national judiciary, Congress and the presidency. Course also addresses the relationship between the national government and state governments. (4-0)
- PS 370 **Latin-American Politics** 4
An inquiry into specific political problems shared by many nations in contemporary Latin America. Emphasis will be placed on such issues as forms of government, i.e., populism, military dictatorships, bureaucratic- authoritarianism, economic development and social movements. (4-0)
- PS 372 **African Politics & Development** 4
A general survey of the forces shaping the governments and politics of African nations. While the emphasis will be on sub-Saharan Africa, Northern Africa will also be included in the course. Recent attempts at democratization, regional military conflicts, environmental challenges and the AIDS epidemic will all be covered in the course. PS 280 is recommended. (4-0)
- PS 374 **Pacific Rim Politics & Issues** 4
An exploration of the concept of a "Pacific Rim" region. The course explores the intersection of economic, political, cultural and environmental issues that affect the region. Historical and current relationships between areas as diverse as Seattle, Singapore and Santiago are addressed. PS 280 is recommended. (4-0)
- PS 386 **Ancient Political Thought** 4
A study of western political thought from pre-Socratic Athens to the 16th century. Readings in the works of philosophers including Plato, Aristotle, Machiavelli, Luther and others. (4-0)
Prerequisites: PS 101
- PS 387 **Modern Political Thought** 4
An examination of the main currents of western political thought from the 17th century to the present. Readings in the works of philosophers including Hobbes, Locke, Rousseau, Marx and others. (4-0)
Prerequisites: PS 386
- PS 400 **Native American Law & Politics** 4
A study of political and legal issues that involve American Indians, both from a historical and contemporary perspective. This course is the same as SOC 400; credit will be given for only one of these courses. (4-0)
- PS 421 **The American Presidency** 4
Study of the American presidency, including historical development and current structure, organization, behavior, processes and policy implications. (4-0)
- PS 422 **Legislative Process** 4
Study of American legislatures at the federal and state level including structural, behavioral and policy implications of the legislative process in contemporary American government. (4-0)
- PS 423 **Philosophy of Law** 4
Explores the debate about the role of the courts, the nature and limits of law and the meaning of concepts such as justice, liberty, morality and responsibility in a constitutional republic. The impact of judicial processes on this debate is analyzed. (4-0)
- PS 425 **Prisons and Prisoners** 4
An inquiry into imprisonment as a punishment for criminals. Historical perspectives on crime and punishment and contemporary issues facing prisons and prisoners are clarified and analyzed. (4-0)
Prerequisites: PS 241
- PS 437 **Nat. Sec. Strategy and Policy** 4
An examination of the domestic and international contexts in which national security is developed, the relevant organizations and decision-making process, and the actual formulation and implementation of national security strategy and policy. (4-0)
Prerequisites: PS 337

PS 492 **Political Science Internship** 3-16
Practical intern work at a local, state, or national governmental or other politics-related organization. Requires keeping a detailed journal and completing a substantial research paper. May be repeated once for a cumulative total of 16 credit hours.
Prerequisites: PS 101 OR PS 110

PS 495 **Proseminar Political Science** 2
This course provides an opportunity to engage in a critical examination of the discipline of political science and its relationship to career opportunities. It encourages students to think seriously about political science as a component of liberal arts education as well as a vocation. It devotes time to preparing an assessment portfolio and identifying a research topic for the senior seminar. (2-0)
Prerequisites: PS 251

PS 496 **Senior Seminar** 2
Advanced study and research in selected topics. (2-0)
Prerequisites: PS 495 AND PS 251

PS 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chair and Dean. 50 contact hours are the equivalent of one credit hour.

PSYCHOLOGY

PSYC 110 **Human Relations** 3
This psychology course focuses on the relationship between the self and the social world. We begin by looking at the person as a system, exploring topics such as personality, motivation and stress. We will link these concepts to an understanding of how the intrapersonal system interacts with interpersonal systems such as social groups, the family and the workplace. This course is concerned with how we create and are created by our social contexts and how we maintain and change them. This course is intended for students seeking a general studies class. Psychology majors are encouraged to take Introduction to Psychology instead. (3-0)

PSYC 157 GSS3 **Introduction to Psychology** 3
An introduction to the scientific study of behavior, including the concepts of learning, motivation, perception, emotions, personality and sexuality. Abnormal, social, developmental, cognitive and physiological psychology will also be discussed. (3-0)

PSYC 218 **Psych Foundation of Education** 2
An introduction to the psychological principles relevant to education. Topics include learning theories, teaching-learning processes, individual differences, human intelligences and issues of educational and cultural diversity. The psychological principles underlying educational practices (e.g. cooperative learning, testing, performance assessments, etc.) are also discussed. Note: This course lasts 7 weeks - half of the semester. (2-0)
Prerequisites: PSYC 157

PSYC 233 **Personality** 4
This course provides an introduction to the major theories of personality, including psychoanalytical, learning, humanistic, biological, cognitive and trait theories. Emphasis will be placed on an understanding of personality structure and the ways that personality is manifested in behavior. (4-0)
Prerequisites: PSYC 157

PSYC 241 **Basic Stats for Psychologists** 4
An introduction to the collection, organization and analysis of data from human and animal populations. Methods of sampling, treatment of data and reporting are covered. Descriptive statistics and statistical inference are taught, as are decision factors and error analysis. Students are introduced to the use of statistical computer software. Not recommended for first semester freshmen. (4-0)
Prerequisites: MATH 110 OR Computed Math Placement MA121

PSYC 254 **Life Span Human Development** 4
This course applies psychological principles to human perspectives of development. The first portion of the course is devoted to studying principles, processes, theories and research methodology. The second part applies these concepts to each stage of the human life span from conception through aging and death and dying, with emphasis on child, preadolescent and adolescent development. Community resources are used for field trips, guest speakers, etc., throughout the second part of the course. (4-0)
Prerequisites: PSYC 157

PSYC 260 **Environmental Psychology** 4
This course examines the relationship between human behavior and the environment in which it occurs. Both natural and built environments will be studied. Topics will include crowding, noise, climate, pollution, and disasters; aesthetics of place and landscape; the influence of historical period, culture and gender on perception of environment; cognitive mapping and wayfinding; territoriality and the psychology of environmentalism. (3-2)

PSYC 265 **Global Community Psychology** 4
This course will explore the impact of Western globalization on indigenous cultures. Specifically, we will examine how Western psychology, technology and free market economic systems affect traditional and collective lifestyles and sustainable ecologies of people around the world. Student activities will be evaluated to determine their level of competence in communication, critical thinking and holistic views toward community development. This course will enhance the students' abilities to critically evaluate the cultural and psychological implications of Western globalization and will provide opportunity to expand experiences with culture and systems aspects of general education. (4-0)

PSYC 270 **Psychology of Gender** 4
An investigation of women's and men's experience of gender as well as the ways that gender influences how people are perceived by others. We will explore a variety of explanations for the similarities and differences between females and males. These will include cultural, social, cognitive, developmental and biological approaches. The application of psychological theory to current gender issues will be considered. The course will include a critique of psychological theory and research on gender. (4-0)
Prerequisites: PSYC 157

PSYC 296 **Psychological Research Methods** 4
Introduction to the basic assumptions, concepts and methodology of experimental and non-experimental psychological research. Includes the study of scientific principles, critical evaluation of published research and discussion of research ethics. Technical topics such as operational definitions, independent and dependent variables, measurement, techniques of observation and experimental design are presented. The laboratory is designed to provide skill in implementing experiments in a variety of psychological fields. This course also introduces students to the discourse and written conventions of APA-style experimental reports. (3-2)
Prerequisites: PSYC 157 AND (PSYC 241 OR MATH 201 OR BA 253) AND (COMP 150 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent OR GCO2)

- PSYC 299 Individual Study 1-6**
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chair and Dean. 50 contact hours are the equivalent of one credit hour.
- PSYC 300 Methods of Inquiry 4**
This course emphasizes qualitative research skills and methods of inquiry. Topics include case studies, observational methods, interview techniques, questionnaires and surveys. Students will also be exposed to information about self-assessment, creating and maintaining client files, confidentiality, legal concerns, minority and affirmative action issues, demographic trends and actuarial systems, agency policies, advocacy and interfaces of service agencies with other community resources. Students will learn inquiry and writing skills and hermeneutic research approaches via laboratory experiences, community agency activities and cross-disciplinary collaborations. Methods of inquiry for use with culturally diverse groups will also be addressed. (4-0)
Prerequisites: PSYC 296
- PSYC 302 Forensic Psychology 4**
Examines the interaction of psychology and the legal system. Explores topics such as psychological testimony about insanity, competency to stand trial, child custody decision-making, future dangerousness, eyewitness testimony, and criminal profiling. Legal standards regarding psychology expert testimony will be discussed, and students will replicate various "classic" experiments in the emerging field of forensic psychology. (4-0)
Prerequisites: PSYC 157
- PSYC 305 Psychology of Intuition 4**
Students will study and write about the psychology and philosophy of intuition. This intensive interdisciplinary course applies the methods of psychological science with a cross-cultural approach to examine intuition. Students are expected to participate in an experiential exploration of intuition. (4-0)
Prerequisites: PSYC 157 AND COMP 150 OR COMP 126 OR COMP 250
- PSYC 310 Psychology of Religion 4**
In this course, we will explore the psychology of spirituality and religious experience. Topics will include: the history of the psychology of religion; the motivational basis of religious participation; the relationship between mental health and religion; development of religious ideas across the lifespan; and social-psychological factors in religious conversion and commitment. This course is the same as RS 310; credit will be given for only one of these courses. (4-0)
Prerequisites: PSYC 157
- PSYC 325 Group Dynamics 4**
In this course we will explore the psychology of groups. Topics will include group structure, interpersonal communication, leadership and group decision making. Students will participate in a variety of group exercises and will relate their experiences to the theory and research of the field of group dynamics. (4-0)
Prerequisites: PSYC 157
- PSYC 327 Physiological Psychology 4**
This course will focus on establishing a basic understanding of physiological mechanisms that influence behavior. Introductory neuroanatomy, neurophysiology, and neuropsychology will be presented. Current findings that emphasize neurotransmitter and endocrine influences on behavior will be discussed. Laboratory experiences will include dissection, physiological modeling, and experimental demonstration. (3-2)
Prerequisites: PSYC 296
- PSYC 328 Industrial/Organizational Psych 4**
This course explores the ways that psychology can help us to understand the behavior of people in the workplace. It includes study of the motivation and development of the individual employee as well as the group dynamics of the organization in which the employee functions. Equal emphasis will be placed upon understanding relevant psychological theory and learning how to apply psychology in practical situations. (4-0)
Prerequisites: (COMP 126 OR COMP 250 OR COMP 150) AND PSYC 157
- PSYC 330 Animal Behavior 4**
This course emphasizes the field of ethology. The course will describe the behavior of a wide range of animal species (including various insects, birds, reptiles, amphibians, and mammals). Human behavior will not be emphasized. The course will require students to understand and implement various behavioral techniques such as estimation, classification, and analysis. Theoretical orientation will be based on historic ethological and evolutionary perspectives. Non-psychology majors with science background are welcome. (4-0)
Prerequisites: PSYC 296
- PSYC 340 Creativity 4**
An interdisciplinary inquiry course exploring biopsychosocial expressions of creative process through study of theory and applications to current social issues. Areas for exploration include the creative brain, paradigm shifts, the creativity of change, and specific student interest in creativity through movement, visual arts, improvisation, free writing and dialogue. (4-0)
Prerequisites: (COMP 150 OR COMP 126 AND (LIB 150 OR LIB 150 equivalent OR GCO2) AND PSYC 157
- PSYC 342 Psychological Testing 4**
A course designed to introduce the student to the area of psychological tests and measurements, providing training in the concepts and applications of intelligence tests, personality inventories, and projective techniques, as well as aptitude and interest scales. Students take, score, interpret and discuss some of the most commonly used psychological tests. (4-0)
Prerequisites: PSYC 233 AND (PSYC 241 OR MATH 201 OR BA 253)
- PSYC 350 Psychology of Globalization 6**
This course will examine the development, change and ecology of selected countries typically located in Asia, Africa, and South America. Students will gain insights into the indigenous technologies and lifestyles of the people we visit. Offered in summer. (6-0)
- PSYC 354 Topics in Child Psychology 4**
This course offers a more concentrated focus on child psychology than Psyc 254 (Life Span Human Development). The course will cover interesting aspects of developmental psychology including biosocial, socioemotional and cognitive growth. Current methods, theories and empirical findings on child development will be examined with a focus on child and adolescent psychopathology. The course explores how factors such as genetics, culture and parenting influence various dimensions of infancy, childhood and adolescence. (4-0)
Prerequisites: PSYC 254
- PSYC 364 Family Dynamics 4**
This course examines empirical, clinical, applied, theoretical and policy issues concerning family life, family development and family dynamics. The course includes themes related to the changing concept of the family, family demography, family ethnicity and values, family functioning and selected therapeutic interventions. The principal focus may vary among themes of clinical family systems, family development and applied interventions with families (4-0).
Prerequisites: PSYC 157

PSYC 375 **Multicultural Psychology** 4
This course will present an overview of multicultural viewpoints in developmental, clinical and research psychology. Predominant western Europe psychological theory will be compared and contrasted with thinking from non-Western constructs and ideology. Multiculturalism as a psychology of people will be explored from a global perspective and from the perspective of various ethnic and minority groups within the United States. Students will attempt to integrate culturally diverse thinking and research to explore ways to increase cultural sensitivity and tolerance of difference in community, workplace and human service contexts. (4-0)
Prerequisites: (COMP 150 OR COMP 126 OR COMP 250) AND PSYC 157

PSYC 383 **History of Psychology** 4
Classroom activities make this course a hands-on experience. We focus on the people who have created clinical and experimental psychology, including Wundt, James, Skinner, Chomsky, Piaget, Freud, Jung, Erikson, Maslow, and Rogers, to name only a few. We also consider the systemic context within which different schools of thought emerged, which helps to integrate different areas of psychology. (4-0)
Prerequisites: PSYC 157

PSYC 387 **Abnormal Psychology** 4
A study of historical, cultural, and contemporary approaches to understanding and treating psychopathology. Use of the DSM IV classification system is taught and case studies of psychopathology are analyzed. (4-0)
Prerequisites: PSYC 233

PSYC 392 **Foundations of Clinical Psych** 4
The course provides a foundation in the applications of psychological theory and research, toward a variety of intra-psychic, interpersonal and organizational problems in our society. (4-0)
Prerequisites: PSYC 387

PSYC 393 **Health Psychology** 4
A study of the specific educational, scientific, and professional contributions of the discipline of psychology to the promotion and maintenance of health, the prevention and treatment of illness, the identification of diagnostic correlates of health, wellness and illness, and the interaction of personal, interpersonal and community aspects of wellness. Topics include the biopsychosocial model, coping with stress and illness, the health care system and alternate methods of health care delivery. Non-psychology majors with a background in science welcome. (4-0)
Prerequisites: PSYC 157

PSYC 394 **Field School in Clinical Psych** 6
A one-month participation with a psychiatric team at a state hospital for mentally disturbed persons. Experiences include admission interviews, staffings, diagnostic techniques, treatment planning and implementation including occupational and recreational therapy. Offered in the summer. Instructor permission.
Prerequisites: PSYC 387

PSYC 406 **Case Studies in Neuropsych** 4
This course explores the world of cognitive neuropsychology by looking into true stories of individuals who have suffered brain injuries or disorders that lead to very specific deficits. For example, we consider the artist whose visual world turned grey overnight, the amputee whose phantom arm sensations were remapped onto his cheek, the hippie whose memory left him stranded in the 60s, the attorney who couldn't recognize her own face in the mirror, and the surgeon who twitched uncontrollably with Tourette syndrome. Cases like these deepen our understanding of the inner workings of the human brain. (4-0)
Prerequisites: PSYC 157

PSYC 420 **Counseling Skills** 4
This course develops various counseling skills, processes, and abilities in students through academic and applied instruction. Consent of instructor. (4-0)
Prerequisites: PSYC 387

PSYC 425 **Social Psychology** 4
This research-intensive course provides an introduction to the many ways in which our thoughts, emotions and behavior are influenced by the people around us. We will explore topics such as aggression, attitude change, group dynamics and self-presentation. Emphasis will be placed upon theories of social behavior and the scientific research that supports them. (4-0)
Prerequisites: PSYC 296

PSYC 441 **Human Memory and Cognition** 4
Principles of cognitive psychology explain how humans remember, learn, and think. Topics include attention, working memory as consciousness, autobiographical memory, remembering in infancy and childhood, semantic frameworks for learning, memory disorders and amnesias, problem-solving, creativity, and cognitive ways to improve learning, as well as the effects of emotion and trauma on memory for events. Class activities and demonstrations illustrate many concepts. (4-0)
Prerequisites: PSYC 157

PSYC 444 **Evolutionary Psychology** 4
Students in this course will examine the influence of evolutionary theory on the field of psychology. Students will review the historical impact of evolutionary theories upon societal values, practices, therapies, and our understanding of human nature. Contemporary findings in the area of behavioral genetics will be incorporated into a model of human nature (4-0)
Prerequisites: PSYC 300

PSYC 496 **Senior Seminar** 4
Advanced study and research in selected topics. Consent of instructor. (4-0)
Prerequisites: PSYC 296 AND PSYC 300

PSYC 498 **Senior Research/Thesis** 1-6
Each student completes a quantitative research project, a qualitative research experience, a comprehensive literature review, or a community-based agency experience. The course provides students with an opportunity to pursue individual interests under the direct supervision of a member of the Psychology faculty. Repeatable up to a maximum of 6 credits. Senior standing and consent of the instructor.
Prerequisites: PSYC 296 AND PSYC 300

PSYC 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

RELIGIOUS STUDIES

RS 244 **Chinese Philosophy** 3
A study of Confucianism, Taoism, and Buddhism with consideration of some dissenting views to these dominant schools of Chinese thought, such as Maoism and Legalism. We will investigate the theories of human nature, knowledge, and reality embraced by these philosophies, as well as their conceptions of ethics and politics. This course is the same as Phil 244; credit will be given for only one of these courses. (3-0)

RS 261 **Philosophy of Religion** 4

An examination of different philosophical approaches to problems raised by religion. Readings are selected from sources representing widely differing points of view, e.g., those of phenomenology, feminism and liberation theology. This course is the same as Phil 261; credit will be given for only one of these courses. (4-0)

RS 308 **Rise of Christianity** 4

A study of the historical Jesus of Nazareth, Judaism, and first century Jewish Palestine under Roman domination. The development of Pauline Christianity and the struggle between orthodox and Gnostic Christians culminating in the final orthodox victory around 400 A.D. will be studied in depth. This course is the same as Hist 308; credit will be given for only one of these courses. (4-0)

RS 320 **Indigenous Worldviews** 4

A survey of selected regional belief systems outside the major religious traditions treated in Phil 321. Emphasis is on philosophical foundations of religious cultures native to the Americas, Africa, Asia, Australia, and Old Europe. Special attention is given to the mythic and other symbolic expressions of archaic consciousness in contemporary societies. This course is the same as Phil 320; credit will be given for only one of these courses. (4-0) these courses.

RS 321 **World Religions** 4

A study of the nature and history of the major contemporary religions of the world. This course is the same as Phil 321; credit will be given for only one of these courses. (4-0)

RS 328 **Christianity in US History** 4

This course covers the role of Christianity in United States history from the nation's creation until today. The class will look at how mainline Christian denominations have shaped U.S. history and been in turn shaped by the American experience. Within this broad historical sweep of linking the past to the present important issues like the separation between church and state, and how the nation has gone from Protestant establishment to secularism as well as how law and politics have come to impact religion, will be examined. This course is the same as Hist 328; credit will be given for only one of these courses. (4-0)

RS 385 **Historical Jesus** 3

This course investigates Jesus as an historical figure in the context of the religion, politics, economic, and culture of his time in Roman dominated Jewish Palestine. Historical critical methods will be employed to evaluate the major scholarly debates among secular, Christian, and Jewish scholars. (3-0)

RS 446 **Ancient Israel and Judah** 3

This seminar explores ancient Israel from its beginnings around 1250 B.C. to the crucifixion of Jesus of Nazareth around 33 A.D. Topics include the historical and archaeological origins of Israel and Judah, Biblical composition and authors, the Babylonian exile, the Dead Sea Scrolls, and Jesus in Jewish and Christian historical context. Historiography and critical scholarship are emphasized. This course is the same as HIST 446; credit will only be given for one of these courses. This course is recommended as a senior capstone course in religious Studies. (3-0)

RS 499 **Independent Study** 1-6

Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

SOCIOLOGY

SOC 100 GSS3 **Introduction to Sociology** 4

This introductory course seeks to examine the extent to which the crisis of institutions creates personal problems in our everyday lives. Conversely, it will explore the degree to which our personal troubles foster institutional contradictions. The field of Sociology explores such topics as stratification, institutions, work and authority, criminology, the environment and health and welfare delivery systems. (4-0)

SOC 101 **American Society** 1

This course introduces international students to contemporary American society through a sociological analysis of the changing patterns of family, community, work, gender, and education in the U.S. and Japan. This sociological perspective on U.S. society will deepen students' understanding of the society in which they will be living and attending college. This course is taught in English. This course is repeatable for up to 2 credits. Consent of instructor. (1-0)

SOC 200 **Social Change & Human Services** 4

This course is designed to facilitate critical understanding of, and commitment to, processes of social change in modern society. Using historical and theoretical analysis of social change efforts, students are encouraged to embrace and develop models of change that take seriously the personal and social dimensions of human struggle. The role and responsibility of human service agencies in social change/community development is also considered. Field work is required. (4-0)

SOC 210 **Ethnography and Writing** 4

This course emphasizes the interplay of ethnographic research, reading, and writing. Students will conduct and write an ethnography based on a course specific theme. This process will allow students to learn to synthesize and analyze their own and others' research and learn to communicate this research to diverse audiences. (4-0)

SOC 250 **Social Issues - Native Society** 4

An examination of the social, political, and economic circumstances of both urban and rural native societies worldwide. Emphasis will be on the United States. Topics may include indigenous peoples in cities, tribal councils, environmental racism, criminal justice, social services, youth, international indigenous issues and networks. (4-0)

SOC 275 **Families and Marriage** 4

This course explores issues relating to the multiplicities of marriage and family life in contemporary society. The course will examine social sources for changes in attitudes towards marriage and family and the societal and individual consequences. (4-0)

SOC 279 GSS3 **Ethnicity Gender & Class In SW** 4

A descriptive analytic inquiry into the historical, social, and economic position of the Hispanics, Native Americans, and women of the Southwest. (4-0)

SOC 280 **Pop Cult & Mass Communications** 4

An inquiry into both the production and the consumption of popular culture. Attention will be paid to cultural power as a force for domination as well as a condition for collective affirmation and struggle. Topics include popular music, radio and television programs, news media, comic strips, and pulp fiction. (4-0)

SOC 299 **Individual Study** 1-6

Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

- SOC 300 **Theo of Social & Personal Life** 4
This course will critically examine the classical and contemporary theories of self and society. The major paradigms of functionalism, Marxism, symbolic interactionism, structuralism, ethnomethodology, and critical and feminist theory will be evaluated. This course serves as the Writing Course for Humanities majors seeking a primary concentration in Sociology/Human Services. (4-0)
- SOC 301 **Comparative Societies** 4
A comparative study of the social structures of selected countries and regions within the first, second, and third worlds. Comparisons will be made of societies within selected regions as well as their relationships to U.S. society. Selected countries and regions will include: Cuba and the Caribbean, the Andean countries, China, Japan, etc. Students may repeat the course for credit provided the topic is different on each occasion. (4-0)
- SOC 310 **Ecology and Society** 4
This course will examine environmental issues and the natural world from a cultural and socioeconomic perspective. It will attempt to study the ideas, conceptions, practices, and beliefs that relate people to the land and their collective environment. Finally, it will look at environmental concerns from the perspective of workers, minorities, and rural and urban communities both in America and worldwide. (4-0)
- SOC 311 **Ecology & Society Field Sch** 8
This course offers a field experience in the relationship between people and the land. Students will work on farms and in the U.S. National Forest. They will meet with Anglos, Hispanics, and Native Americans in rural communities. One week will be spent in the National Forest learning to identify wildlife and its habitat.
- SOC 320 **Community Service Practicum** 1-16
This course provides the student with experience in applied sociology. Students will be involved in human services, applied social research or other activities approved by the advisor and practicum coordinator. The emphasis is on gaining experiential knowledge through active participation in sociological practice and sharing this in a classroom experience. Practicum may be taken for 4 or 8 credits per term and for a maximum of 16 credits. A maximum of 8 credits can be applied toward the major in Sociology. Consent of instructor.
- SOC 330 **Mind, Self and Society** 4
An examination into the ways in which society influences the self and the individual produces society. The relationship between consciousness and social structure will be discussed. Theoretical focus may include symbolic interactionism, ethnomethodology and/or a Marxist perspective. (4-0)
- SOC 340 **Religion and Social Life** 4
An examination of, principally, contemporary religious phenomena from the viewpoint of social science. The course will also examine the significance of religious studies in the development of reasoning about society. (4-0)
- SOC 345 **Art and Society** 4
An inquiry into the relationship between any historically specific art and the social setting in which it was created. The idea that art is a way of seeing a world view or a theoretic, will be explored. The focus of the course may be literature, the visual arts, music, theater, or film. (4-0)
- SOC 350 **Search for Intimacy** 4
This course will examine the cultural and institutional obstacles to intimacy. Class, gender, and race as historical categories will play their part in discussion and analysis. The idea that intimacy is something that only applies to romantic relations but not to larger social and community concerns will be examined. (4-0)
- SOC 353 **Medical Sociology** 4
A study of the social practices and beliefs that define and constitute the phenomena of health and illness. The current health care delivery system, including professional roles, patient participation, administration, medical education, and planning, will be critically reviewed, and alternatives will be explored. This course is recommended for Pre-Health as well as Social Science majors. (4-0)
- SOC 361 **Deviance** 4
An examination of the traditional versions of deviance followed by modern critiques that emphasize "labeling" and the more phenomenological approaches to understanding human conduct. (4-0)
- SOC 362 **Criminology & Criminal Justice** 4
An examination of the major "positivist" theories of crime and criminality (individual, familial, subcultural) followed by the modern critique of positivist criminology emphasizing the part played by the administration of criminal justice as an integral part of the characterizing and structuring of crime. (4-0)
- SOC 363 **Juvenile Delinquency** 4
A review of contemporary thinking about the development of juvenile delinquency and the linkages between juvenile delinquency and the administration of juvenile justice. (4-0)
- SOC 375 **Sociology of Education** 4
Study of the organization and practices of educational institutions and of the transformation these institutions are now undergoing. Special attention to the nature of these changes and their impact on the learning process as well as their consequences for the larger society will be explored. (4-0)
- SOC 376 **Language & Social Behavior** 4
A concentrated look at the social function of language use in society. The extent to which languages create social reality will receive scrutiny. Particular topics may include language and social class, language and sex, linguistic politics, language and culture, or language cognition and development. (4-0)
- SOC 380 **Work and Authority in Society** 4
This course will explore the extent to which meaningful work is possible in any society. It will seek to account for the forms of authority in work and describe the impact that hierarchical structures have on the individual. (4-0)
- SOC 383 **Women in Society** 4
This course focuses on where American women in various class and ethnic categories stand in society now, compared not only to men but also to their mothers and grandmothers. It takes into account economic status, educational and job opportunities, family responsibilities, physical well-being and reproductive rights. It includes a significant portion of feminist theory, which serves as the vehicle for an ongoing analysis of the ways in which political, economic, and other social structures, as well as psychological factors such as gender attitudes, have historically affected the status of women. (4-0)
- SOC 400 **Native American Law & Politics** 4
A study of political and legal issues that involve American Indians from a historical and contemporary perspective. This course is the same as PS 400; credit will be given for only one of these courses. (4-0)
- SOC 421 **Contemp Social Analysis In SW** 4
A seminar in the application of theories of social change, social knowledge, and research into regional issues in the Southwest. Topics may vary but will critically address issues of water, energy, agriculture, urbanization, inequality, public morality, politics, education, and community. Consent of instructor. (4-0)

SOC 496 **Senior Seminar** 4
Advanced study and research in selected topics. The student will prepare and submit a senior seminar research paper to qualify for graduation. (4-0)

SOC 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the department chairperson and dean. 50 contact hours are the equivalent of one credit hour.

SOUTHWEST STUDIES

SW 100 **Fund of Navajo Language I** 3
A course in the basic fundamentals of the Navajo language on the oral-aural approach. The instructor is a native speaker and much use is made of tapes, etc. Same as ML 100; credit will be given for only one of these courses. (3-0)

SW 101 **Navajo Language II** 3
Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing of the Navajo language. Same as ML 101; credit will be given for only one of these courses. (3-0)
Prerequisites: SW 100 OR ML 100

SW 110 **Intro American Indian Studies** 3
Surveys the concepts, methods, and contents of American Indian Studies, using examples from the indigenous cultures of North America and paying special attention to the ways in which academic disciplines contribute to our understanding of indigenous cultures. (3-0)

SW 115 **Native American Newsletter** 3
For lower-division students with good writing skills. Students will prepare six stories for publication in the Intercultural News, gaining basic skills in news writing for a specific readership, Macintosh computer format, photo taking, and news layout and design. Coursework will include concepts pertinent to contributing to communications in "Indian Country." May be taken twice for credit. (3-0)

SW 123 **American Indian History** 3
The history of Indians of the United States from contact to the present. (3-0)

SW 125 **Hist of Hispanos in Southwest** 3
A study of the history of the Hispanos in the American Southwest from the period of exploration to the Chicano Movement in the 1960s and 1970s. For the purposes of this course the Southwest is defined as including the geographic area under Spanish and Mexican sovereignty before 1848. (3-0)

SW 131 GHI1 **Southwest History and Culture** 3
A broad introduction to Southwestern history and cultures with lectures on history, archaeology, literature, art, and other related topics. (3-0)

SW 135 **The Southwest I** 3
The course will feature an interdisciplinary approach for examining the uniqueness of the Southwest. Students will examine the geological, biological, historical, and cultural diversity of the Southwest. Major problems confronting this region will be explored. (3-0)

SW 136 **The Southwest II** 3
This course concentrates on contemporary practical and conceptual problems and issues such as indigenous land rights, the environment, tourism, economic development, water, racism, the U.S./Mexico border, labor, and demographics, among others. Emphasis will also be given to creative problem solving that draws on multicultural and interdisciplinary sources. (4-0)
Prerequisites: SW 135

SW 181 GHI1 **US/SW Environmental History** 3
This course explores the environmental history of the U.S. from pre-European contact through today, with a focus on the West/Southwest. The course will look at how the land and culture(s) interacted to reorganize and redefine one another, the relationship between environmental and cultural change, and how the present is linked to the past. This course is the same as Hist 181; credit will be given for only one of these courses. (3-0)

SW 241 **Public History: Scope & Methods** 3
We will examine the "front end" of history - various ways in which stories of the past are taken outside of the academy's "stone walls" and presented to the general public. Public historians package and convey history to make it come alive. They apply historical knowledge and methods in settings as diverse as archives, museums, historical sites, businesses, and mass media. (3-0)

SW 255 **Intro to Heritage Preservation** 3
The Introduction to Heritage Preservation course will introduce students to a number of career paths in public history, archives, museums, and interpretation within federal agencies like the U.S. Forest Service, the National Parks Service, the Bureau of Land Management and tribal cultural preservation programs. Field trips, guest speakers, and group projects will be featured. (3-0)

SW 256 **Introduction to Museums** 3
Introduction to Museums will enable students to learn about a wide facet of museum careers in art, culture, and history museums and in the interpretation of culture and historic sites. Students will get hands-on experience with the numerous collections at the Center of Southwest Studies. Field trips, guest speakers, and group projects will be featured. Consent of instructor. (3-0)

SW 265 **Art History of the Southwest** 3
This course is the same as Art 265; credit will be given for only one of these courses. For description of course, see Art 265. (3-0)

SW 280 GSS3 **Native Amer in Modern World** 3
This is an introductory study of contemporary affairs in Indian Country. The historical beginnings, development and current significance of today's issues will be studied. Students will learn of these issues from recent materials, many produced by Indian people, and will be encouraged to explore their own interests in Indian affairs in brief writing assignments. (3-0) Prerequisites:

SW 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

SW 301 **Writing/SW Studies Discipline** 3
This course fulfills the writing requirement for the Southwest Studies major. Students will study methods of writing of established scholars in the field and produce their own written materials appropriate for Southwest Studies. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 EQUIVALENT OR GCO2)

- SW 315 **Native American News Writing** 3
For upper-division students with good writing skills. In addition to the requirements for the SW 115 level course, students will work with and edit stories for students in the 115 class. May be taken twice for credit. (3-0) Prerequisites:
- SW 317 **Histry of Amer Indians in Film** 3
An analysis of the treatment of American Indians in film. It also will relate film images to images in literature and other media. (3-0) Prerequisites:
- SW 318 **History of Chicanos in Film** 3
This course will focus on the changing treatment of Hispanos/Chicanos in American commercial film. It will deal with the issue of stereotypes and will relate films to prevailing attitudes at the time in which they were made. It also will evaluate the impact of film on public attitudes. (3-0)
- SW 320 **West/SW American History** 3
This course will focus on the 19th century American west. Using the theme of expansionism, the course will look at the interaction between cultures and people in the West, the forces that produced a unique section of the country, the creation of the mythic West and its enduring legacy, and how the present is linked to the past in the trans-Mississippi West. (3-0)
- SW 322 **American Indian Philosophies** 3
The course will look at the various aspects of American Indian philosophies and the manifestations of those philosophies. The course will study both traditional philosophies and those that have been changed through contact with American society. (3-0) Prerequisites:
- SW 323 **Southwest Indian History** 3
Studies the history and culture of Native American groups in the Southwest. (3-0) Prerequisites:
- SW 326 **West & SW in Film and Fiction** 3
An analysis of the treatment of the West and Southwest in film and fiction. (3-0) Prerequisites:
- SW 327 **American Indians & Mass Media** 3
The Native Peoples of North America have been the subjects of a virtual war of misinformation since first contacts with Europeans. American mass media still cast images of Indian people that serve to trivialize their concerns and confound their attempts to remain culturally distinct and sovereign peoples. Students in this course will appraise the process and effects of stereotyping of Indian people in the mass media and learn of the responses of today's Indian media professionals. Issues of cultural dominance and new media technologies will also be examined. Students will evaluate media materials through written research and oral presentations and produce media products to counter the problems created for Indian people by the mass media. (3-0) Prerequisites:
- SW 330 **Cowboys, Cattlemen & Pop Cult** 3
This course focuses upon the cattle industry in the United States. The approach is interdisciplinary and will include history, folklore, music, art, and literature. Contemporary issues such as those related to grazing policies, image of the cowboy, and rodeo will also be included. (3-0) Prerequisites:
- SW 333 **Wilderness in America** 3
This course traces the history of the concept of wilderness on American public lands beginning in the Colonial period in the 1600s with wilderness defined as a dangerous, unsettled area, to the establishment of the federal wilderness preservation system in 1964. Students will read history, literature and science and will come to understand difficult issues in managing wilderness areas today. Hiking, camping, and field trips to wilderness areas in the San Juan Mountains will be an integral part of the course. (3-0)
- SW 335 **Nat'l Parks: Amer's Best Idea** 3
This course will begin with the history of the National Park Service and the Organic Act, passed in 1916, that required national parks to remain "unimpaired for future generations" thus creating the paradox of public use versus site preservation. The evolution of the National Park Service will be discussed with equal attention to history and science and the concept of national parks as valuable biotic reservoirs for ecosystems and endangered species and as home to spectacular mountain and canyon Western landscapes. The course will also focus on history, archaeology, and anthropology as those disciplines have been interpreted at units of the National Park Service including national monuments national parks, national recreation areas, and national seashores. Note: field trips will be required. (3-0)
- SW 340 **Archival Theory and Practice** 3
The tools and approaches taught in this course should be useful to anyone who aims at making a difference in today's information age. In addition to learning organizational principles from the archival profession, students will examine and implement effective and efficient ways of storing, accessing, and selectively preserving data. Classes are supplemented by archival work in the Center of Southwest Studies. (2-3)
- SW 341 **Oral History; Theory & Pract** 3
This course uses interactive listening to provide an understanding of the theory and practice of producing oral histories. It will benefit a budding historian, anthropologist, folklorist, sociologist, or archivist, and anyone wanting to improve listening skills and desiring to preserve an otherwise undocumented aspect of our past. Participants practice oral history interviewing and transcription. The final product is transcribed oral history interview of sufficient historical research value to warrant inclusion in the Center of Southwest Studies collection. (3-0)
Prerequisites: COMP 150 OR COMP 126 OR COMP 250
- SW 342 **Cultural Resources** 3
This course is designed to prepare students in the interpretation of cultural resources and to create awareness of Western heritage under specific topics such as Indian Heritage; mining heritage; ranching heritage; etc. Each class will have a different cohesive theme that will include readings, research, guest speakers, and field trips. (3-0)
- SW 344 **Native American Oral Tradition** 3
Native American Oral Traditions still offer distinct perceptions of the world. Students in this course will learn of the evolution of tribal oral traditions from early records of their existence to the modern issues surrounding their maintenance. These and other issues will be explored through essay and oral assignments and participation in individual and group activities in recording oral traditions. (3-0) Prerequisites:
- SW 355 **Dev of US Indian Policy** 3
This course traces the development of United State policy toward the American Indians. Beginning with the policies inherited from European colonizers, the federal government developed expedient policies to balance the desires of its own citizens with the Indian peoples' legal rights and hopes for continued tribal survival. The course documents the opposing concepts of assimilation and segregation that have led to the present philosophy of pluralism and self-determination in United States Indian policy. (3-0) Prerequisites:
- SW 360 **MesoAmerican Art History** 3
This course is the same as Art 365; credit will be given for only one of these courses. See Art 365 for course description. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2)
- SW 361 **Cultural Ecology of the SW** 3
A survey of the complex relationships between human and biotic communities in the Southwest from ethnobotany to agriculture to the urban Southwest with an emphasis on technology, culture, and ecology. (3-0)

SW 368 **Native N. American Art History** 3
Using a regional approach, this course examines art by Native Americans from Alaska, the Northwest Coast of North America, Plains, Woodlands, California, Northeast, Southeast and Southwest regions of the United States. The influence of tourism, photography, and museums on art, as well as Native American influence on these forces is also examined. Art surveyed ranges from the archaic to the contemporary. This course is the same as Art 368. Credit will be given for only one of these courses. (3-0)

SW 380 **Native American Literature: Topics** 4
A study of traditional and contemporary Native American expression as seen through oration, tales and legends, chants and songs, poetry, drama, autobiography and the novel. This course is the same as Engl 380; credit will be given for only one of these courses. (4-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2)

SW 381 **Chicano Literature** 3
This course is the same as ML 331. See ML 331 for course description. Credit will be given for only one of these courses. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2))

SW 382 **Hispano Lit, Art, Cult** 3
Survey of the re-assertion of Chicano culture in the Southwest with a focus on myth, ritual, symbol and storytelling through art and literature and emphasis upon the relationships between Meso-American, American Indian, and Indo-Hispano cultures (3-0)

SW 383 **Southwest History to 1868** 3
This course will cover the Spanish, Mexican, and early territorial periods in the Southwest, concluding with the end of the Civil War and the Navajo treaty of 1868. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2))

SW 384 **Southwest Hist 1868 to Present** 3
This course will cover the political, social and economic history of the Southwest from 1868 to the present. (3-0) Prerequisites:

SW 402 **Contemp Art & Lit of the S.W.** 3
The course will conceptualize the Southwestern artist in terms of spirit and place, or broadly speaking, the effect the landscape has upon art and the artist. In addition, the course will focus on critical issues such as marketing of ethnicity, repatriation, looting of archaeological sites and the artifacts black market, curating major exhibits, and displaying of and writing about the sacred. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2))

SW 425 **Hispanic Civilization** 3
Using a global approach, this course examines the histories and cultures of the Indian and Hispanic Southwest by comparing them to the Hispanic cultures in Latin America, Europe, and the Caribbean. (3-0)

SW 450 **Tribal Preservation** 3
Tribal Preservation will introduce students to all aspects of tribal historic preservation and cultural resource management on Indian lands. Using a case study approach, students will learn how to preserve and protect sacred objects and sacred places and explore career options with native programs. Field trips and guest speakers will be featured. (3-0) Prerequisites:

SW 481 **Colorado History** 3
The history and peoples of Colorado from the preterritorial days through the present. This course is the same as Hist 324; credit will be given for only one of these courses. (3-0) Prerequisites:

SW 482 **Western American Mining** 3
From the days of the Spanish to today, a history of mining and its impact, with special emphasis on the Southwest. This course is the same as Hist 322; credit will be given for only one of these courses. (3-0) Prerequisites:

SW 491 **Practicum** 3
As an integral part of a heritage preservation certificate, the Southwest Studies practicum will provide valuable work-related experience in the Durango area for a minimum of 120 contact hours. Students may work on campus, in area museums, or with federal agencies involved in cultural preservation. This is a formal mentored relationship to allow students to pursue career goals in the preservation field. (0-3)

SW 493 **Intern SW Studies** 1-6
The internship offers instruction and hands-on experience in museology and archival management. Course is repeatable for up to 6 credits.

SW 496 **Senior Seminar** 3
Senior seminar in Southwest Studies. (3-0)
Prerequisites: (COMP 126 OR COMP 150) AND (LIB 150 OR LIB 150 equivalent OR GCO2)

SW 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

THEATRE

THEA 100 **Theatrical Production I** 1-4
This course involves initial participation in theatrical production. It includes involvement in various areas of theatre from inception to presentation. Students with little or no theatre experience will gain a working knowledge of performance. Repeatable for up to 12 credits.

THEA 101 GAH1 **Introduction to Theatre** 4
This course offers a general introduction to the theatre and to performance in the human experience. Students view and discuss films and live performances, and perform scenes in class. The course emphasizes an understanding of the processes of creating theatre, and of the role of theatre and performance in the context of cultures and contemporary society. Guest speakers from other disciplines introduce a variety of perspectives on performance as a human activity. There is a strong participatory component to the course. (4-0)

THEA 126 GAH1 **Introduction to the Dance** 4
This course offers an exploration of the historical/ theoretical basis of dance and its many variant forms. In addition to gaining an historical and theoretical knowledge of dance, this course includes the practical/technical overview of traditional and contemporary dance forms including African dance, folk dance, ballet, jazz dance, musical theatre, performance art, and dance improvisation. Students will gain a general knowledge of technical skills as well as a broad knowledge and appreciation of the art and history of dance. (4-0)

THEA 135 **Acting Techniques I** 3
This course introduces students to basic performance techniques including a study of basic techniques in body, voice, characterization, and play analysis as they are applied to performance. It includes improvisation skills, performance of dramatic text and literature, text analysis, and introductory scene work. (3-0)

- THEA 156 **Guest Artist Series** 1-3
This course gives both theatre and non-theatre students the opportunity to work with and learn from guest artists--directors, designers, and performers--who are visiting from professional theatre venues of world-renowned status. Students may choose to participate in some or all of the guest artist series depending on the schedule and the number of registered credit hours. Repeatable up to 8 times.
- THEA 166 **Dance Techniques: Topics** 2
Students will learn and practice the technique of a specific style while concentrating on personal abilities, awareness, and ways to correctly train his or her body. The technique taught each session will vary each term. Repeatable for up to 12 credits maximum in any combination from Thea 166 and 366. (2-0)
- THEA 200 **Theatrical Production II** 1-4
This course constitutes involvement of the intermediate level student in theatrical production. Students with a developing dedication to theatre participate in selected areas including but not limited to dramaturgy, technical theatre, performance administration, and performance. Repertoire includes classical, modern, musical theatre, and dance. Repeatable for up to 12 credits.
- THEA 230 **Stage Technology** 4
This course provides students with a basic working knowledge of the technical aspects of theatre including scenery construction, costume construction, prop construction, lighting equipment and its uses, and introductory knowledge of the aspects of stage design. (4-0)
- THEA 233 **Audition Techniques** 2
An audition is the actor's primary tool for securing employment. This course explores the audition process in terms of text analysis, musical auditions, film auditions, choosing audition materials, and audition trends across the United States. The purpose of this course is to help students compile an audition repertoire in order to be competitive in both the professional and educational world of theatre. (2-0)
- THEA 236 **Styles in Acting** 4
This course is the second in the performing sequence. It further develops the student's performance skills through the theory and practice of various systems of acting. At this level the students will focus primarily on styles in acting. Thea 135 suggested, but not required. (4-0)
- THEA 238 **Acting Techniques II** 3
This course involves advanced training in application of acting techniques of the voice and body including techniques of: freeing the body and voice, body language, movement in the development of characterization, advanced text analysis, and other actor techniques. (3-0)
Prerequisites: THEA 135
- THEA 240 GAH1 **Ancient & Classical Theatre** 4
This course is the first in the theatre criticism/dramatic literature sequence (240 and 340). Students taking this course attain a breadth and depth of foundational knowledge of world theatre/dramatic literature and cultures by examining various styles and traditions of performers, playhouses, plays, and playwrights to 1800. Focus is placed on reading and analyzing plays and attaining insight into the thinking and theatre conventions of times and places at a greater distance from our own including: Classical Greek and Roman, Asian, Indonesian, Medieval, Italian Renaissance, Elizabethan, Jacobean and Caroline, Spanish, French Neo-classic, Restoration and Enlightenment. (4-0)
- THEA 270 **Acting for Camera** 3
In this course students will be introduced to techniques for performing to camera. Explorations include appropriate voice/body work. Students should be enabled to grow in confidence and work with appearance and sound on camera. Commercials and short pieces of TV or film script will be utilized. The work will be undertaken using video cameras in a rehearsal setting. (3-0)
- THEA 272 **Vocal & Physical Preparation** 2
This course is designed to be a lecture/demonstration/experiential class for students interested in public performance. It is designed to give each student tools to develop voice and body (physical and vocal) skills for performance. Students will learn the discourse and practice of physical and vocal developments with regard to stretching, alignment, placement, anatomy, quality, and projection. (2-0)
- THEA 274 **Make-up & Costume Design** 4
The study and application of the production elements, materials, methods, and principles of design as applied to stage costume and make-up. Emphasizes costume history and texts in analysis and interpretation. Presented in a studio format and project driven. Explores concept development, style selection, and extensive practice in a variety of techniques for costuming and make-up. (4-0)
- THEA 296 **Sophomore Seminar** 2
Theatre majors must take Sophomore Seminar after the completion of 14 theatre credits. This course addresses various facets of the theatre discipline and career planning. (2-0)
- THEA 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.
- THEA 300 **Theatrical Production III** 1-4
This course involves participation in a theatrical production, including various areas of technical theatre, performance, and theatre administration. The maturing student is actively involved in theatre production(s) during the semester. Repeatable for up to 12 credits.
- THEA 310 **Scenic Design & Technology** 4
This course examines the process of theatrical scene design from early conception to realization. Course work is project-based. Students are introduced to the crafts of script analysis, conceptualization, design expression, drafting, and 3-D model building. Involves projects in theatrical scene design and provides intensive practice in sketching, rendering, drafting, and model-building. (4-0)
Prerequisites: THEA 230
- THEA 322 **Creative Dramatics** 4
Creative Drama uses a student's innate ability to "play" in the developmental process of becoming a productive well-adjusted human being. This course focuses on using drama as a teaching tool in multiple disciplines, using drama as a socializing tool for children and adults, and understanding drama as an art form. (4-0)
- THEA 323 **Children's Theatre** 4
In this performance-based course, students will explore dramatic literature appropriate for child audiences. Students will travel to area schools and perform for and with Durango area children. (4-0)
- THEA 335 **Styles in Acting** 3
This course further develops the acting student's performance skills through the theory and practice of various styles of acting. At this level the students will focus primarily on styles in acting with regard to specific temporal periods including, but not limited to, Greek, Roman, Classical French, English Renaissance, Restoration Comedy of Manners, Enlightenment, Realism, and Anti-realism. (3-0)
Prerequisites: THEA 135
- THEA 336 **Creating Performance/Directing** 4
This course concentrates on the conceptual and practical application of performance in the form of creating a production from initial concept to closure. Students will develop and use the skills of analysis, strategic planning, directing, creating movement, organization, and administration. (4-0)

THEA 340 Modern Theatre 4
This course, the second in the dramatic literature sequence (240 and 340) surveys developments in theatre practice and dramatic literature from the beginning of the 19th through the mid-20th century. The development of modern drama and the concurrent philosophical thinking in Western theatre history will be the focus of the course. The course will also explore coinciding developments in Asian and African theatre and intercultural influences. May be taken as a "Topics" course for English majors. (4-0)
Prerequisites: THEA 240

THEA 342 Asian Performance 4
The purpose of this course is to facilitate knowledge, discussion, and critical thought of Asian theatre forms including those from Japan, China, India, and S.E. Asia (Malaysia and Indonesia). The exploration of Asian theatre gives students a greater breadth of knowledge and clearer understanding of non-Western perspectives as valid and important to our current culture and expression of meaning. (4-0)

THEA 356 Guest Artist Series 1-3
This course gives both theatre and non-theatre students the opportunity to work with and learn from guest artists--directors, designers, and performers--who are visiting from professional theatre venues of world-renowned status. Students may choose to participate in some or all of the guest artist series depending on the schedule and the number of registered credit hours. Repeatable up to 8 times.

THEA 366 Dance Technique 2
Students will learn and practice the technique of a specific style while concentrating on personal abilities, awareness, and ways to correctly train his or her body. The technique taught each session will vary each term. Repeatable for up to 12 credits maximum in any combination from Thea 166 and 366. (2-0)

THEA 369 Playwriting 4
In Playwriting, students develop their own creativity in theatrical forms. Students examine dramatic plots, characters, dialogue, exposition, setting, theme, new and traditional forms and other elements of drama through a series of exercises and writing practices. They will read a number of contemporary plays and attend local performances. All students will write a producible one-act play. (4-0)

THEA 372 Stage Management 2
Covers stage management from the inception of a production concept through the process of mounting a production, focusing on the interrelationships of the various artists involved, management and scheduling of time, and the psychology of handling a wide range of personalities. (2-0)
Prerequisites: THEA 230

THEA 374 Lighting and Sound Design 4
Introduces the craft of stage lighting design and sound technology through experiential projects, lecture/demos, hands-on production experience, and theoretical projects. Subject matter includes aesthetics of sound and light, color theory, lighting and sound for performance, electricity, acoustics, equipment, design graphics, and basic sound and light technology. (4-0)
Prerequisites: THEA 230

THEA 400 Theatrical Production IV 1-4
This course involves in-depth involvement in theatrical production, performance, and technical theatre. The advanced theatre student will have the opportunity to build on his/her theatre skills in areas such as acting, dance, technical theatre, costuming, dramaturgy, and theatre administration. Repeatable for up to 12 credits.

THEA 460 Internship in Theatre 1-4
This course provides students the opportunity to apply what they have learned in the classroom to a professional theatre organization. Specific requirements of the internship will be determined by the arts organization, the supervising college faculty, and the student. May be repeated once for up to 8 credit hours. (0-12)
Prerequisites: THEA 200 OR THEA 300 OR THEA 400

THEA 496 Senior Seminar 2
This course gives senior theatre majors the opportunity to demonstrate their abilities in connecting the analytical academic research process to performance. Significant research, on an approved topic, will result in a substantial paper. Each student's research combined with insightful performance knowledge, problem-solving techniques, and creative thinking, results in a public presentation. This is a full course and 496 must be taken in the fall, followed by 497 in the winter. (2-0)
Prerequisites: THEA 340 AND THEA 336

THEA 497 Senior Seminar 2
This course gives senior theatre majors the opportunity to demonstrate their abilities in connecting the analytical academic research process to performance. Significant research, on an approved topic, will result in a substantial paper. Each student's research combined with insightful performance knowledge, problem-solving techniques, and creative thinking, results in a public presentation. This is a full course and 496 must be taken in the fall, followed by 497 in the winter. (2-0)
Prerequisites: THEA 340 AND THEA 336

THEA 499 Independent Study 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of 1 credit hour.

TRANSITIONAL STUDIES

TRS 82 Introduction to Algebra 3
This course provides review and instruction in elementary algebra and offers the opportunity to apply these skills to word problems and critical thinking exercises. (3-0)
Prerequisites: Computed Math Placement M0082

TRS 83 Intro to Algebra: Problem Solving 2
Supplement to Introduction to Algebra (TRS 82) for students who wish to explore the concepts in greater depth and who wish to receive additional assistance with problem solving. Students will receive a Pass/Fail grade. (2-0)

TRS 90 Reading for Ideas 3
This course introduces students to strategies for reading the types of texts assigned in entry-level college courses. (3-0)
Prerequisites: FLC Reading Placement Score C089 OR FLC Reading Placement Score C090

TRS 91 Intro to Academic Writing 3
This course introduces students to the strategies that are fundamental to writing source-based texts. Emphasis is on summary, response, analysis, and synthesis of multiple resources. (3-0)
Prerequisites: FLC Writing Placement Score C089 OR FLC Writing Placement Score C091

TRS 92 **Intermediate Algebra** 3
Designed to provide review and instruction in college preparatory mathematics for students with deficiencies in or apprehensions about required entrance level mathematics courses. The course will cover such topics as algebraic expressions, manipulation of signed numbers, solving equations and inequalities, algebraic fractions, polynomials, exponents, radical expression, and graphing. Students who wish to enroll in this course should have successfully completed at least the equivalent of Algebra I. (2-1)
Prerequisites: TRS 82 OR Computed Math Placement Score M0092

TRS 93 **Inter Algebra: Problem Solving** 1
Supplement to Intermediate Algebra for students who wish to explore the concepts in greater depth and who wish to receive additional assistance with problem solving. Students will receive a Pass/Fail grade. (1-0)

THEMATIC STUDIES 2 ENVIRONMENT

TS2 courses are the upper-division requirements for the general education program in the 2001-2006 catalogs. Students in the 2007-08 catalog may take these courses as electives if they meet all of the prerequisites; see the 2006-07 catalog for a listing of those prerequisites. The Academic Advising & Student Success Center, Room 140, Miller Student Services Center, can assist students in determining whether they have met these prerequisites.

TS2N 400 **Environmental Science & Policy** 4
This course explores the science behind key environmental issues and policies that have been or are being developed at the local, regional or global level. The role of science in policymaking will receive particular attention. Topics covered may include such issues as energy, ozone depletion, climate change, population growth, and sustainable development. (4-0)

TS2N 401 **Simply Science** 4
This course will examine the scientific process, including the strengths and weaknesses of Western science, as a way of learning about natural phenomena and environmental issues. The natural environment serves as the arena for class discussions and exercises. The methods of science form the foundation from which questions about our environment are posed and investigations of possible causes and consequences are conducted. (4-0)

TS2N 403 **Environmental Justice** 4
This course examines ecological, economic, legal and sociopolitical constructions of environmental justice and sustainability. The integration of environmental and social justice concepts and movements, especially regarding natural resource use, stewardship, and consumption are examined along with ecosystem integrity, economic resource distribution, political organization and current environmental law and policy. (4-0)

TS2N 404 **Wetland & Stream Ecology** 4
In this course, we will explore the ecology, history, value, and use of wetlands and streams. We will take a global survey of wetlands and discuss pollution and other anthropogenic activities that affect wetlands, wetland protection laws, management, restoration, and local grass-roots conservation efforts. (4-0)

TS2N 405 **Wilderness** 4
This course explores the relationship between human beings and wilderness. Topics include attitudes about the environment, wilderness as therapy, ecopsychology, outdoor leadership and group dynamics, and wilderness risk management. Students will consider both local and international issues in wilderness management. Students are required to complete field work in the wilderness as part of this course. (3-2)

TS2N 406 **Water in the West** 4
This class explores how biological, geological, political, and economic forces affect and are affected by a limited resource - water. Students from different fields participate in analyzing local and global case studies and conducting research. This course uses water in the western United States as a springboard to address the global importance of sustainable water use and resource conservation. (4-0)

TS2N 408 **EcoTexts** 4
This course examines how historical, scientific, and imaginative texts construct human perceptions of the natural world at both the local and global levels. Sustainability and interconnectedness will provide the organizing principles of this course, which will include activities such as analyzing environmental impact statements, creating education publications, and participating in service learning projects. Students will be expected to gather and analyze a variety of data as they interrogate different ways humans come to know and understand the world. (4-0)

TS2N 409 **Cosmic Origins** 3
This course is an interdisciplinary adventure in the origin of life and the universe. The course objective is to provide a scientific description of the history of the universe - from the big bang to our civilization today - as a starting point for contemplating who we are, why we are, and our obligations to the planet. (3-0)

TS2N 412 **Resources and the Environment** 3
This course is a critical study of the occurrences of renewable and fossil fuels, industrial mineral deposits, and water resources. In addition students investigate the environmental, economic, and social impact of extraction, refining, and waste products associated with these resources. Local and global case studies and research highlight the need for sustainable use of resources and resource conservation. (3-0)

THEMATIC STUDIES 2 CULTURE

TS2 courses are the upper-division requirements for the general education program in the 2001-2006 catalogs. Students in the 2007-08 catalog may take these courses as electives if they meet all of the prerequisites; see the 2006-07 catalog for a listing of those prerequisites. The Academic Advising & Student Success Center, Room 140, Miller Student Services Center, can assist students in determining whether they have met these prerequisites.

TS2R 400 **Forgotten Antilles: Puerto Rico** 4
This interdisciplinary course is designed to deepen students' knowledge of the Latin Antilles, particularly Puerto Rico, through studying Puerto Rican social structures and history. Through readings dealing with historical events, topics of human interest, biographies, artistic expressions, poems, and humorous anecdotes, students will develop an understanding of Antilles cultures and a broader appreciation of different cultural frameworks and infrastructures. (4-0)

TS2R 401 **Global Migration & Diaspora** 4
This course looks at cultural aspects of migration as a local, regional, national, and global phenomenon of our age, and at the creation and history of diasporas (commercial, ethnic, cultural, racial, national). A major component of the course will be research and group presentations. (4-0)

TS2R 402 **History of the Book** 4
This course focuses on the book to examine notions of "progress" and the relationships between technological development and intellectual activity. Ancient information recording systems and the development of Western writing will be studied along with writing technologies in non-Western cultures. The most revolutionary book - the computer or "virtual book" - will also be examined. (4-0)

TS2R 404 Ethnic Families in America 4
This course focuses on how cultural values and belief structures, immigration and adjustment experiences, and other socioeconomic conditions shape current ethnic family compositions and functioning patterns. Students will gain knowledge of selected theoretical perspectives, recent research findings, and future trends pertinent to ethnic families. Ecological socialization and socioeconomic models that address the functioning of ethnic families in the United States will also be explored. (4-0)

TS2R 405 Non-Western Music & Culture 4
This course investigates the artistic and imaginative creative processes through which culture and music are expressed in non-Western societies. Various music cultures are studied through readings, audio recordings, videos, student oral presentations, written papers, guest lecturers, and experiential musical performances. Students learn about different cultural ideas of what music is, what its powers are, and how it relates to other aspects of life. (4-0)

TS2R 408 Genius & Representation 4
One of the most recurrent depictions in various film genres, television programs, and art historical material is the figure of genius - natural, successful, failed, corrupted, artificial, and subversive. This course investigates the appearance and limits of such representations within film and visual culture. (4-0)

TS2R 410 U.S. Latino Popular Culture 4
This class explores differences between mainstream U.S. and Latino popular cultural expressions. The formation of Latino cultural identity will be examined, as well as U.S. Latino history, in order to understand how sociopolitical and cultural ideologies are established and rebellion against the status quo occurs. Although a bilingual approach will be taken as the class explores films, literature, music, etc., a knowledge of Spanish is not required. (4-0)

TS2R 411 Performance Art 4
Performance Art is a global phenomenon as well as a genre that developed in the 20th century by means of a collaborative effort across dissimilar art and performance disciplines. This course considers creative expression to be an important avenue to understanding the self and the expressions of various individuals, collective groups, and cultures of the world. Through an examination of selected topics in theatre, dance, music, and the fine arts, students will develop historical, critical, analytical, and expressive skills necessary for redefining the boundaries of artistic expression. (4-0)

TS2R 413 Gender & Performance 4
This is an interdisciplinary course that explores gender issues in a performative environment such as theatre. Students develop historical, critical, analytical and expressive skills in the selected discipline. Focus is on understanding the modes of expression with regard to knowledge of historical and contemporary works and issues from a variety of different genres and cultures. (4-0)

TS2R 414 Social Poetry 4
This course is based on the premise that literature reflects the society from which it originates, with poetry the genre of focus. Poetry will be explored according to its type, language employed, author's gender, and ethnic origin within the framework of the socio-historical context under which it was written. Theory will be used to explore poetic techniques employed by poets. (4-0)

TS2R 415 The Maya: Ancient & Modern 4
The Maya, the largest Native American ethnicity in the Americas will be the subject of an interdisciplinary analysis employing techniques from archaeology, art, history, ethnohistory, and social anthropology. Each era of the Maya past will involve a distinct mode of analysis focused on urban space and architecture, the production of religious and secular art, and the structure of daily life. (4-0)

TS2R 416 Rationality and Culture 4
This course investigates the interplay between truth, rationality and the values that shape our lives. Does our knowledge represent an objective reality or is it so imbued with political, economic, religious, and other values as to merely reflect our own cultural standpoint? Can we - and should we - disentangle the demands of reason from the influence of social values? (4-0)

TS2R 419 American Indian Philosophies 3
Selected philosophies of many North American indigenous peoples are the focus of this course. Both traditional philosophies and those which have changed through contact with American societies will be studied. Writings and other materials from the perspectives of scholars and Native peoples themselves will provide a basis for discussion, writing assignments and research on aspects of the living traditions of indigenous peoples. (3-0)

TS2R 420 Culture and Place 3
What role does sense of place serve in a world where lines between artificiality and reality are unclear and where products-physical and cultural-are transported and sold globally? Does sense of place shape perceived responsibilities to the natural world? This course explores conceptions and perceptions of rootedness in place as they affect and are affected by culture and environment. (3-0)

THEMATIC STUDIES 2 SYSTEMS

TS2 courses are the upper-division requirements for the general education program in the 2001-2006 catalogs. Students in the 2007-08 catalog may take these courses as electives if they meet all of the prerequisites; see the 2006-07 catalog for a listing of those prerequisites. The Academic Advising & Student Success Center, Room 140, Miller Student Services Center, can assist students in determining whether they have met these prerequisites.

TS2S 400 No Gods, No Masters 4
This course examines the critical arguments anarchists make against the capitalist nation-state system. Popular culture perceptions of anarchy, the ways that political and economic systems construct commonly held beliefs, and presuppositions about human nature, ownership, equality and the roles of laws are studied. The course also examines alternative models of living in the world. (4-0)

TS2S 402 Movements of Resistance 4
This course explores how various modes of resistance are launched, maintained, and sometimes falter in a number of different sociological, historical and cultural contexts. Mainstream corporate media tend to portray resistance movements as trivial or fanatical. This course asks students to examine different modes of resistance to various forces as disparate as nation-states, international policies sponsored by various states, and international organizations. (4-0)

TS2S 403 Game Theory 4
Game theory is the formal analysis of strategic situations. This course will provide students with a structured approach to tactical problem solving. It will also consider the interplay between strategic behavior and social structures, norms, and the human psyche. Although the course involves theoretical modeling, no mathematics beyond elementary algebra is required. (4-0)

TS2S 404 Gender & the Sciences 4
This course explores the ways that the socio-cultural systems of sex/gender and scientific production influence one another. Using an interdisciplinary approach informed by sociology, the history of science, and feminist critiques of knowledge, this course examines issues such as the socialization of women into scientific communities; the ways that scientific methodology and questions carry gender bias; and strategies for critically analyzing the cultural assumptions of science. (4-0)

- TS2S 405 **Psychology & Political Thought** 3
This course will examine how people make judgments, form opinions, weigh truth claims, evaluate source credibility, use logic, and process and recall political information. The course combines knowledge from political science, logic, and communications. Special emphasis will be on the role of various media outlets, including movies and the Internet, in creating and maintaining perceptions and conspiracy theories about politics. (3-0)
- TS2S 406 **Odyssey Through Wellness** 3
This course will explore historical, cultural, and systemic perspectives on health and wellness. It will focus on paradigm shifts in understanding health and specific health conditions, the influences of technology, religion, culture and politics, and the balance of mind, body, and spirit in understanding health and wellness. (3-0)
- TS2S 407 **Gender & Sport** 3
This course will examine the intersection of culturally- based sex-gender system with the system of sport on all levels including play, social recreation, organized recreation, outdoor experiential activity, physical education in schools, high school and collegiate athletics, Olympic competition, and professional sports. (3-0)
- TS2S 408 **America's Sorting Hat** 4
This course explores the system of admissions to U.S. higher education in an historical perspective. Current issues will be examined, including standardized testing, ethnicity, family income, special talents (e.g., athletics, music), and alumni status. Students will develop their own college admissions process evaluating its strengths and weaknesses and inherent values. Unintended systemic consequences will be exposed. (4-0)
- TS2S 409 **Systems Perspectives on Lang** 4
This course examines language as a cognitive system and its uses in different forms of human communication. It includes a discussion of language acquisition. In the last part of the course, students will apply knowledge they have gained to the study of language use in a global setting. They will gain insight into the role of language in constructing identity. (4-0)
- TS2S 410 **Defining America** 3
This course, through multicultural exploration, brings to light critical issues of the cultural past and its subsequent relationship to the present. Students are expected to participate in an exploration of systems regarding culture, ethnicity, gender and socioeconomics to "Define America" (3-0)
- TS2S 412 **Catholicism in the West** 4
This course will provide a systemic approach to understanding the influential role that Catholicism as a social system has played in shaping the Western United States, with particular focus on its origins up until the present. This course will explore its complexity in relation to the historical, political, and socio-cultural subsystems as well as the external and internal factors, beliefs, actions, expressions, and practices of Catholicism in the West. The pilgrimages, the Penitentes, and Santos in contrast as subsystems will be deciphered in relation to others such as Protestants and tribal groups. The dynamics of power between the church and the state will be emphasized. (4-0)
- TS2S 414 **Systems of Performance** 4
We will examine performance as a way of looking at the world. From the presentation of self in everyday life to the election of presidents, life is full of performance. As a system, the performance paradigm is an interdisciplinary tool for examining human behavior. Students will attain an understanding of how performance as a mode enriches their own chosen roles. (4-0)

THEMATIC STUDIES 2 TECHNOLOGY

TS2 courses are the upper-division requirements for the general education program in the 2001-2006 catalogs. Students in the 2007-08 catalog may take these courses as electives if they meet all of the prerequisites; see the 2006-07 catalog for a listing of those prerequisites. The Academic Advising & Student Success Center, Room 140, Miller Student Services Center, can assist students in determining whether they have met these prerequisites.

- TS2T 400 **Computers, Energy, & Ethics** 4
This course is a seminar in building an informed sense of individual and social responsibility regarding the development and use of technology. Focusing on computer information representation and solar energy technology, students gain first hand lab experience, explore the historical contexts and underlying scientific principles of these technologies, and critically assess their impacts on society. (4-0)
- TS2T 401 **Ethics & Biotechnology** 4
Students will explore the ethical implications of technology in molecular biology. They will learn to use scientific principles to understand the science underlying new technologies, such as genetically modified organisms in agriculture, genetically engineered human drugs, genetic testing, and gene therapy. The tools of philosophy will provide a way to analyze the moral dilemmas such technologies create. (4-0)
- TS2T 402 **Agricultural Issues in Society** 3
In this course students examine a number of technological changes in agriculture and their impact on society, culture and the environment. Throughout the course, technological change is examined from scientific, social, and public policy perspectives. (3-0)
- TS2T 403 **Science of Sport Performance** 3
What is the science behind record breaking elite sport performances and what are the limits of human athletic performance? This course examines peak and record breaking performances in sport and explains the science behind them. The physics of performance, analysis of motion and technique, new equipment, altitude, and surfaces, plus sociological and psychological factors will be considered. (3-0)
- TS2T 404 **Body/Brain Connections** 3
This course examines endocrinological technology and how the endocrine system affects the body and brain. The endocrine system and major hormones involved in the reproductive, digestive, and immune systems are reviewed. The course will examine the development of the technology of hormone measurement and hormone system management. An exploration of the relationship between the mind and body will focus on the field of psychoneuroimmunology. (3-0)
- TS2T 405 **Art & Science of the Book** 4
This course surveys the technology of the book from its mechanical production in pre-modern times through the technological innovations of the printing revolution to the electronic age of virtual text. Taught from an applied art perspective, this course will engage students in a hands-on exploration of the science and craft that make the book an enduring medium for communication and artistic expression. (2-4)
- TS2T 407 **Technology & Ethics in Medicine** 4
This course will explore the ethical use of technology in medicine. This history of the development of technology for medical use will be a major component because along with this development came the formulation of concepts of ethical practice. The association of major social changes with the development of new medical technologies will be examined. (4-0)

TS2T 408 **The Digital Divide** 3
Students examine impacts of technology, including socioeconomic limitations and opportunities associated with modern advancements. Students will use several media to consider the influences on the culture, language, value systems, attitudes and feelings of minority students as they relate to educational technology in preparation for the global community. Several topics will be addressed in-context via cultural excursions. (3-0)

TS2T 409 **The End of Oil** 4
Oil dependence and depletion are critical global issues. Students: 1) study scientific concepts of energy production and use, 2) study oil's geopolitical history, 3) assess impacts of oil extraction and use on complex ecological and social systems, and 4) consider energy conservation and alternative energy sources. Students also consider broad issues regarding the roles of technology in social and natural systems. (4-0)

TS2T 410 **Great Ideas in Computing** 4
How does a computer represent music? How do computers predict weather accurately? What can't computers do? What is computer science really about? This course provides students a framework for understanding how computer hardware and software work. The focus will include theory that underlies computing, as well as hands-on experience with design and application of computing systems. (4-0)

WOMEN'S STUDIES

WS 101 GSS3 **Intro to Gender & Women's Stud** 4
This course introduces students to the variety of multidisciplinary questions and practical concerns encompassed by the study of gender, women, and sexuality within a feminist historical and theoretical framework. (4-0)

WS 280 **Issues in Women's Health** 4
This course will examine women's health through the life span. Discussion will focus on the physical and emotional health of the maiden, woman, and crone. The course will also examine social and historical factors that have affected women as health care clients and providers. Although the course materials will concentrate on health in the United States, there will be some comparative readings about women and health in other cultures. Throughout the course particular attention will be paid to the interplay between women's status in society and their role definitions as participants in the health care system. (4-0)

WS 299 **Individual Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

WS 301 **Feminist and Gender Theories** 4
This multidisciplinary course examines the central issues of feminist and gender theories and explores their various strategies. It analyzes the ways in which feminist and gender theories have challenged disciplinary boundaries and contested the traditional assumptions of the humanities, the social sciences, and the sciences. (4-0)
Prerequisites: (COMP 150 OR COMP 126 OR COMP 250 OR GS 151 OR FCS 100) AND WS 101

WS 332 **Women in American History** 4
An analysis of women's experience from the colonial period to the present. Focusing on the way gender has been defined and marriage, reproduction, the struggles for equality, and women's culture. The influence of class, race, and ethnicity on women's experiences will also be considered. This course is the same as Hist 332; credit will be given for only one of these courses. (4-0) Prerequisites:

WS 351 **Gender and Work** 4
Work - in the paid labor force and in the homes - is an important site of 20th-century feminist activism and scholarship because historically grounded notions of what is "women's work" continue to powerfully condition women's and men's "places" in the paid labor force and in the home. Through an exploration of contemporary scholarship from Women's Studies and other disciplines, this course will examine the construct of "women's work" and the broad range of issues related to the gendering of work and work systems. (4-0) Prerequisites:

WS 355 **Anthropology of Gender** 4
An in-depth, cross-disciplinary analysis of the nature and origins of gender concepts cross-culturally, particularly as they relate to explaining gender hierarchy. Topics to be covered include the contributions of feminist thought to social scientific theories, the cultural construction of gender categories, and the relationship of gender to power. This course is the same as Anth 355; credit will be given for only one of these courses. (4-0)

WS 365 **Women and Development** 3
An overview of the central role women play in the development process in non-Western societies, and of their struggle to gain access to the most basic levels of power and governance around the world. The focus will be on women in developing countries, but reference to women in developed countries will also be made. This course is the same as PS 365; credit will be given for only one of these courses. (3-0)

WS 366 **Women, Art and Visual Culture** 4
This course provides an overview of contemporary art theory, representations of women, and the feminist critique of art. Students will read, research, and write about art and discuss the idea of "visual culture". This is the same course as Art 366; credit will be given for only one of these courses. (4-0)

WS 496 **Gender and WS Senior Seminar** 2
Advanced reading, writing, and seminar discussion that serves as an integrative, capstone experience for majors and minors in Gender and Women's Studies. Emphasis will also be placed on looking beyond the bachelor's degree to incorporating the intellectual experiences of gender, sexuality, and women's studies to practical life arenas. (2-0)
Prerequisites: WS 301

WS 499 **Independent Study** 1-6
Individual research is conducted under the supervision of a faculty member. Topic and format must be approved by the Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

ADMINISTRATION AND FACULTY

BOARD OF TRUSTEES FOR FORT LEWIS COLLEGE*

			TERM ENDS
RICHARD G. BALLANTINE	Durango		2007
BRIAN T. BISSELL	Lakewood		2010
LINDA CAMPBELL	Ignacio		2009
PATRICIA B. NOYES	Boulder		2009
THOMAS R. SCHILLING	Denver		2008
LEONEL B. SILVA	Centennial		2008

**In addition, a faculty representative and a student representative are elected under the jurisdiction of the Board of Trustees for Fort Lewis College as non-voting members.*

PRESIDENT'S CABINET

BRAD BARTEL, President

STEPHEN RODERICK, Provost and Vice President for Academic Affairs

STEVEN SCHWARTZ, Vice President for Finance and Administration

GLENNA WITT SEXTON, Vice President for Student Affairs

KENNETH PEPION, Associate Vice President for Academic Affairs

THOMAS HARRINGTON, Dean of School of Business Administration

JOHN NINNEMANN, Dean of School of Natural and Behavioral Sciences

Vacant, Dean of Arts, Humanities and Social Sciences

CAROL SMITH, Dean of Enrollment Services and General Education

BYRON DARE, President, Faculty Senate

PEGGY SHARP, Executive Assistant to the President

KENT STANLEY, Athletic Director

CRAIG YOUNG, Chief Planning Officer

ADMINISTRATIVE PERSONNEL

KAREN ALDRICH, Director of Human Resources

YVONNE BILINSKI, Director, Native American Center

VALERIE BORGE, Controller

ANDREW BURNS, Director, Admission Office

MITCHELL DAVIS, Public Information Officer

KEN FRANCIS, Director, Office of Community Services

MARC GOLDFARB, Interim Director of Leadership Center

MARGIE DEAN GRAY, Director, Foundation Relations

MARK GUTT, Interim Director of Physical Plant and College Engineer

DAVID HAYES, Director, Teacher Education

WAYNE HERMES, JR., Director of Purchasing

BRADLEY HITTI, Director of Auxiliary Services

CHANDLER JACKSON, Director of the Reed Library

EDWIN JOHNSON, Registrar

HAERYON KIM, Coordinator for Judicial Affairs; Coordinator for Equal Opportunity

JULIE LOVE, Director of Student Housing and Conference Services

PAUL MARES, Bookstore Manager

SUSAN K. MCGINNESS, Director of Counseling and Student Development Center

MATTHEW McGLAMERY, Director of Information Technology

VIRGINIA R. NEWMAN, Physician's Assistant, Manager of Student Health Center

MICHELE PETERSON, Director of Budget

ELAINE REDWINE, Director of Financial Aid

ANGIE ROCHAT, Director of Grants Management

SANDY SMITH-LLOYD, Assistant Vice President of Student Affairs

ALLYN TALG, Director of Career Services

ARNOLD TRUJILLO, Chief of Police

AMELIA YEAGER, Director of Institutional Research

ACADEMIC FACULTY 2007-2008

* Date after title denotes when appointment began at Fort Lewis College.

- ADAMS, EVANS JOSEPH, Professor of Computer Science (1990)*
B.S., Nicholls State University, 1977
M.S., University of Southwestern Louisiana, 1979
Ph.D., University of Southwestern Louisiana, 1982
- AGUILAR, KATHLEEN (CATALINA), Assistant Professor of Modern Language (1998)
B.A., University of New Mexico, 1987
M.A., University of New Mexico, 1988
Ed.D., The Fielding Institute, 2003
- ANZIANO, MICHAEL CURRAN, Associate Professor of Psychology (1993)
B.A., University of Denver, 1971
M.A., University of Colorado, Denver, 1978
Ph.D., University of Colorado, Boulder, 1984
- ARBEENY, PAMELA SIPP, Librarian and Assistant Professor
B.A., Baldwin Wallace College, 1973
M.A., New York University, 1988
M.L.S., Long Island University, 1998
- BARANSKI, JOHN F., Assistant Professor of History, and Gender and Women's Studies (2004)
B.A., Sonoma State University, 1993
M.A., San Francisco State University, 1996
Ph.D., University of California, 2004
- BARTLETT, WILLIAM R., Professor of Chemistry (1978)
B.A., Luther College, 1965
Ph.D., Stanford University, 1969
- BECKER, KARIN LEIGH, Coordinator, Testing Center and Visiting Instructor of Writing Program
B.A., University of North Dakota, 1998
M.A., Eastern Michigan University, 2002
- BELL, KEVIN JACK, Assistant Professor of Art (2004)
B.A., Bowdoin College, 1988
M.F.A., University of Oregon, 2002
- BENZ, BRADLEY PAUL, Assistant Professor of English (2001)
B.A., University of Kansas, 1991
M.A., Humboldt State University, 1995
Ph.D., University of Washington, 2001
- BERRIER, DEBORAH LANE, Associate Professor of Mathematics (1989)
B.S., New Mexico State University, 1977
M.S., Virginia Polytechnic Institute, 1980
M.S., Clemson University, 1986
Ph.D., Medical University of South Carolina, 1989
- BLANCHARD, KENDALL A., Professor of Anthropology (1999)
B.A., Olivet Nazarene College, 1964
M.Div., Vanderbilt University, 1968
M.A., Southern Methodist University, 1970
Ph.D., Southern Methodist University, 1971
- BRANDT, KERI JACQUELINE, Assistant Professor of Sociology, and Gender and Women's Studies (2005)
B.A., Fort Lewis College, 1995
Ph.D., University of Colorado, 2005
- BROOKS, ROBERT WILLIAM, Assistant Professor of Exercise Science (2002)
B.S., University of Idaho, 1977
M.S., University of Wisconsin, Madison, 1979
Ph.D., Washington State University, 1993
- BROWN, ALANE SUSAN, Associate Professor of Psychology, and Gender and Women's Studies (1990)
B.A., Brandeis University, 1981
M.A., Princeton University, 1988
Ph.D., Princeton University, 1990
- BROWDER, CINDY CAROL, Assistant Professor of Chemistry (2001)
B.A., Oberlin College, 1993
Ph.D., University of Utah, 2001
- BUNCH, KENYON DALE, Professor of Political Science (1993)
B.S.E., Central Missouri State University, 1970
M.A., Lincoln University, 1977
Ph.D., University of Missouri, 1985
- BUNTING, ROBERT REED, Associate Professor of Southwest Studies (1994)
B.S., Eastern Oregon State College, 1969
M.A., Wichita State University, 1971
Ph.D., University of California, 1993
- BURKE, BRIAN A., Assistant Professor of Psychology (2003)
B.S., McGill University, 1997
M.A., University of Arizona, 2001
Ph.D., University of Arizona, 2003
- BUTLER, GREGORY W., Visiting Professor of Computer Science (2005)
A.S., Northern Virginia Community College, 1977
B.S., University of Wyoming, 1984
M.S., Lesley College, 1988
Ph.D., Utah State University, 2003
- BYRD, SHERELL KUSS, Professor of Biology (1992)
B.A., Western State College, 1980
M.S., University of Oregon, 1983
Ph.D., University of Oregon, 1987
- CAMPI, LISA CLARE, Assistant Professor of Music (2002)
B.M., Indiana University, 1991
M.M., University of Maryland, 1993
D.M.A., Eastman School of Music, 2002
- CARDONA, NANCY KAY, Associate Professor of English (2000)
B.A., St. Mary's University, 1991
Ph.D., Indiana University, 2000
- CARRASCO, LOURDES M., Professor of Modern Language (1983)
B.A., University of California/Santa Barbara, 1968
M.A., University of California/Santa Barbara, 1970
Ph.D., Michigan State University, 1979
- CARY, JEFFREY ALAN, Visiting Instructor of Geosciences
A.A., Colorado Mountain College, 1979
B.S., Fort Lewis College, 1983
M.S., Western Washington University, 1990
- CHARLES, MONA CERISE, Anthropology Field School Director
B.A., University of Tennessee, 1976
M.A., University of Nebraska, 1981
- CHEESEWRIGHT, GORDON PAUL, Professor of English (1988)
B.A., Principia College, 1964
M.A., University of California/Los Angeles, 1969
Ph.D., University of California/Los Angeles, 1972
- CHEW, BEVERLY R., Professor of Psychology (1989)
A.B., Bryn Mawr College, 1974
A.M., Harvard University, 1980
Ph.D., Harvard University, 1983
- COLBY, CHAD WILLIAM, Assistant Professor of Art (2003)
B.F.A., Indiana University, 1994
M.F.A., American University, 1998
- COLLIER, JAMES D., Professor of Geology (1982)
B.A., Carleton College, 1976
Ph.D., Colorado School of Mines, 1982

- CONDIE, JOHN MacPHERSON, Associate Professor of Biology (1989)
B.S., Northeast Missouri State University, 1974
Ph.D., University of Minnesota, 1984
- COOPER, CAMERON IAN, Visiting Instructor, Freshman Math Program
B.A., Occidental College, 1996
M.S., Carnegie Mellon University, 1997
M.A., Northwestern University, 2000
M.E., Harvard University, 2001
- COSTELLO, MOLLY COLLEEN, Visiting Instructor in the Writing Program
B.A., Saint Bonaventure University, 1990
M.A., Northern Illinois University, 1992
- COUFAL, VESTA MAI, Assistant Professor of Mathematics (2004)
B.A., Mount Holyoke College, 1993
M.S., University of California/San Diego, 1996
M.S., University of Notre Dame, 2001
Ph.D., University of Notre Dame, 2004
- CRAWFORD, GERALD, Professor of Physics (1986)
B.A., Gustavus Adolphus College, 1979
M.S., University of Oregon, 1980
Ph.D., University of Oregon, 1983
- CREECH, ANTONINETTE KING, Visiting Instructor of Teacher Education
B.A., University of North Carolina, 1979
B.A., University of North Carolina, 1985
M.A., University of North Carolina, 1989
- CROSS, JAMES S., Assistant Professor of Exercise Science (1988)
B.S., Springfield College, 1974
M.S., Queens College, 1983
- CROWLEY, STEVEN MICHAEL, Assistant Professor of Accounting (2007)
B.S., University of Montana, Missoula, 1993
M.A., University of Montana, Missoula, 1994
Ph.D., University of Utah, 2004
- DARE, BYRON, Professor of Political Science (1984)
B.A., University of Southern California, 1973
M.A., University of Southern California, 1974
Ph.D., University of Southern California, 1983
- DAVIS, GINNY ANN, Associate Professor of Theatre (1999)
B.F.A., University of Texas, Austin, 1986
M.F.A., University of Houston, 1991
Ph.D., Texas Tech University, 1996
- DODDS, WILLIAM B., Professor of Marketing (1992)
B.S., Clarkson University, 1970
M.S., Clarkson University, 1971
Ph.D., Virginia Polytechnic Institute, 1985
- DORR, BETTY JEAN, Professor of Psychology (1991)
B.A., Arkansas Tech University, 1984
M.A., University of Nebraska/Omaha, 1988
Ph.D., University of Nebraska, 1993
- DOTT, CYNTHIA E., Assistant Professor of Biology (2002)
B.A., The Colorado College, 1985
M.S., University of Wisconsin, Madison, 1990
Ph.D., University of Wisconsin, Madison, 1996
- DUKE, PHILIP G., Professor of Anthropology (1980)
B.A., Cambridge, England, 1976
M.A., University of Calgary, Canada, 1978
M.A., Cambridge, England, 1982
Ph.D., University of Calgary, Canada, 1982
- DUTRO, MARK KEVIN, Visiting Instructor of Exercise Science
B.S., Kansas State University, 1982
B.A., Wichita State University, 1987
M.A., University of Iowa, 1993
- EL-HAKIM, OMNIA I., Professor of Engineering (1984)
B.S., Ein Shams University, Egypt, 1966
M.S., Cairo University, 1977
Ph.D., Colorado State University, 1984
- ELLISON, J. TODD, Archivist and Professor (1991)
B.A., Middlebury College, 1977
M.A., University of Maryland, 1986
M.L.S., University of Maryland, 1986
- ERICKSON, MARY ANN, Associate Professor of Exercise Science (1998)
B.S., Ithaca College, 1978
M.S., Indiana State University, 1980
Ph.D., University of New Mexico, 1998
- ESTLER, RON C., Professor of Chemistry (1982)
B.A., Drew University, 1972
M.A., Johns Hopkins University, 1974
Ph.D., John Hopkins University, 1976
- EVANS, TINA LYNN, Librarian and Associate Professor (1996)
B.A., University of Arizona, 1987
M.A., Tulane University, 1990
M.L.S., University of Arizona, 1993
- FARRELL, TIMOTHY PETER, Associate Professor of Music (1999)
B.M.A., Pacific Lutheran University, 1990
M.M., Northwestern University, 1991
D.M.A., University of Oregon, 2000
- FINE-DARE, KATHLEEN S., Professor of Anthropology, and Gender and Women's Studies (1983)
B.A., DePauw University, 1974
M.A., University of Illinois, 1980
Ph.D., University of Illinois, 1986
- FITZGERALD, JANINE MARIE, Associate Professor of Sociology/Human Services and Gender and Women's Studies (1994)
B.A., University of Colorado, 1987
M.A., University of New Mexico, 1990
Ph.D., University of New Mexico, 1996
- FREEMAN, MICHAEL RUSSELL, Associate Professor of Art (1998)
B.A., University of Oregon, 1990
M.A., Indiana University, 1995
Ph.D., Indiana University, 2000
- FRY, MICHAEL FORREST, Associate Professor of History (1990)
B.A., Westminster College, 1977
M.A., Tulane University, 1980
Ph.D., Tulane University, 1988
- FULLMER, SHAWN E., Assistant Professor of English (2001)
B.A., Utah State University, 1993
M.A., Utah State University, 1996
Ph.D., University of Nevada-Reno, 2001
- FULTON, RICHARD STEWART, Assistant Professor of Teacher Education (2005)
B.S., George Washington University, 1981
M.A., University of Northern Colorado, 1992
Ed.D., University of Northern Colorado, 1997
- FURST, VERONIKA, Assistant Professor of Mathematics (2007)
B.A., University of Colorado, Boulder, 2001
M.A., University of Colorado, Boulder, 2001
Ph.D., University of Colorado, Boulder, 2006
- GARCÍA, REYES ROBERTO, Professor of Philosophy (1988)
B.A., University of Colorado, 1974
Ph.D., University of Colorado, 1988
- GEHRMAN-SEIS, JENNIFER ANN, Associate Professor of English, and Gender and Women's Studies (1996)
B.A., University of Wisconsin, 1988
M.A., Indiana University of Pennsylvania, 1991
Ph.D., Indiana University of Pennsylvania, 1996

- GETZ, AMY KAY, Visiting Instructor, Freshman Math Program
B.A., Fort Lewis College, 1989
M.A., Adams State College, 2000
- GIANNINY, GARY LEE, Associate Professor of Geology (1999)
B.A., Colorado College, 1983
M.S., University of Wisconsin/Madison, 1990
Ph.D., University of Wisconsin/Madison, 1995
- GOLDSTEIN, LESLIE, Visiting Instructor, Freshman Math Program
B.Ed., McGill University, 1996
M.A., University of Arizona, 2002
- GONZALES, DAVID ALAN, Associate Professor of Geology (1998)
B.S., Fort Lewis College, 1982
M.S., Northern Arizona University, 1988
Ph.D., The University of Kansas, 1997
- GOOLD, CHRISTINE KAYE, Visiting Instructor of English
B.A., Fort Lewis College, 1981
M.A., Colorado State University, 1992
- GORDON, AARON JOHATHAN, Associate Professor of Computer Science, (2004)
B.S., University of Illinois, 1971
M.Ed., University of Illinois, 1974
M.S., West Virginia University, 1979
Ph.D., University of Wisconsin, 1985
- GORE, RICHARD ALLEN, Associate Professor of Accounting (2006)
B.S., San Diego State University, 1978
Ph.D., Washington State University, 1998
- GREER, KRISTINE ANNE, Assistant Professor of Teacher Education (2005)
B.A., California State University 1987
M.A., University of Colorado, 1994
Ed.D., New Mexico State University, 2004
- GRIGG, KALIN LYNN, Assistant Professor of Sociology/Human Services (1994)
B.A., Fort Lewis College, 1977
M.A., Conservative Baptist Theological Seminary, 1986
- GULLIFORD, ANDREW JELLIS, Professor of History and Southwest Studies (2000)
B.A., The Colorado College, 1975
M.A.T., The Colorado College, 1976
Ph.D., Bowling Green State University, 1986
- HAALAND, RYAN KENT, Associate Professor of Physics and Engineering (2006)
B.A., Concordia College, 1985
M.S., University of California, Los Angeles, 1990
Ph.D., University of Oxford, 1999
- HAKES, CHARLES LYNN, Visiting Assistant Professor of Physics/Engineering
B.A., Rice University, 1981
M.E.E., Rice University, 1983
M.A., Rice University, 1987
Ph.D., Rice University, 1990
- HALE, ANA NANCY, Visiting Instructor in the Writing Program
B.A., University of California, Berkeley, 1970
M.S., Utah State University, 2005
- HANKS, BRIAN FREDERIC, Assistant Professor of Computer Science (2005)
B.A., University of California/Santa Cruz, 1980
M.S., University of California/Santa Cruz, 1987
Ph.D., University of California/Santa Cruz, 2005
- HANNULA, KIMBERLY ANN, Associate Professor of Geology (2000)
B.A., Carleton College, 1989
Ph.D., Stanford University, 1993
- HARRINGTON, THOMAS CRAIG, Dean of School of Business Administration and Professor of Management (2004)
B.S., Parks College/Saint Louis University, 1967
M.B.A., Indiana University, 1975
Ph.D., University of North Carolina/Chapel Hill, 1980
- HARTSFIELD, ELLEN ATHENA, Visiting Instructor of Modern Language
B.A., University of Pennsylvania, 1987
M.A., College of Notre Dame of Maryland, 1998
- HARTSFIELD, LARRY K., Professor of English (1984)
B.A., Abilene Christian University, 1974
M.A., Southern Illinois University, 1976
Ph.D., University of Texas, 1982
- HAYES, DAVID JAMES, Director, Teacher Education and Professor of Teacher Education, (2004)
B.A., University of Massachusetts, 1968
M.Ed., University of Virginia, 1973
Ed.D., University of Virginia, 1980
- HELM, MONTE LEE, Assistant Professor of Chemistry, 2003
B.S., Minnesota State University, 1995
Ph.D., University of Colorado, 2000
- HERR, MARY LYNNE, Assistant Professor of Teacher Education (2006)
B.A., Framingham State College, 1981
M.A., University of New Mexico, 1986
Ed.D., Northern Arizona University, 1997
- HERZ, PAUL JOSEPH, Associate Professor of Accounting (2004)
B.A., St. Vincent College, 1968
M.B.A., Canisius College, 1979
Ph.D., University of Utah, 1994
C.P.A., Illinois, 1981
- HUGGINS, ERIC L., Assistant Professor of Business Administration (2002)
B.S., Harvey Mudd College, 1991
M.S., University of Michigan, 1993
Ph.D., University of Michigan, 2002
- HUNT, KENNETH ALLEN, Professor of Marketing (1999)
B.S., Concord College, 1977
M.B.A., Virginia Polytechnic Institute and State University, 1978
Ph.D., Virginia Polytechnic Institute and State University, 1984
- HUTCHINS, GINNY GRAHAM, Assistant Professor of Biology (2004)
B.S., Southwestern University, 1991
Ph.D., University of Texas Health Science Center/Houston, 2001
- IRISH, BRIDGET JANE, Director, Writing Program and Visiting Instructor of Writing Program
B.A., State University of New York, Albany, 1991
M.A., State University of New York, Albany, 1997
- JACKSON, CHANDLER CHESHIRE III, Director, Library and Associate Professor (2004)
B.A., Northwest Bible College, 1977
B.M., University of Texas/Arlington 1982
M.S., North Texas State University, 1985
M.A., University of Texas/Arlington, 1996
- JONES, JANET LEE, Professor of Psychology (1990)
B.A., Pomona College, 1984
M.A., University of California/Los Angeles, 1985
Ph.D., University of California/Los Angeles, 1989
- JUNG, MARCELYN BETH, Assistant Professor of Exercise Science, and Gender and Women's Studies (1990)
B.A., Fort Lewis College, 1981
M.S., Illinois Benedictine College, 1990
- KENDALL, DEBORAH MARIE, Professor of Biology (1987)
B.S., Colorado State University, 1975
M.S., University of Colorado, 1981
Ph.D., Colorado State University, 1987

- KENNY, RAY, Professor of Geosciences (2001)
B.S., Northeastern Illinois University, 1983
M.S., Arizona State University, 1986
Ph.D., Arizona State University, 1991
- KNIGHT-MALONEY, MELISSA A., Associate Professor of Exercise Science (1997)
B.A., Fort Lewis College, 1989
M.A., University of New Mexico, 1993
Ph.D., University of New Mexico, 1999
- KORB, JULIE EDITH, Assistant Professor of Biology (2002)
B.A., University of Colorado, Boulder, 1994
M.B.S., University of Colorado, Boulder, 1997
Ph.D., Northern Arizona University, 2001
- KOZAK, DAVID LEE, Professor of Anthropology (1994)
B.A., Fort Lewis College, 1986
B.A., Fort Lewis College, 1987
M.A., Arizona State University, 1990
Ph.D., Arizona State University, 1994
- KRAUS, SUSAN MARIE, Assistant Professor of Psychology (2006)
B.S., Penn State University, 1988
M.A., University of Colorado, Boulder, 1991
Ph.D., University of Colorado, Boulder, 1993
- LANCASTER, KURT WARREN, Assistant Professor of English (2002)
B.A., Principia College, 1989
M.A., University of Maine, 1991
Ph.D., New York University, 1999
- LAMPMAN, AARON MICHAEL, Assistant Professor of Anthropology, (2005)
B.A., New College of Florida, 1996
Ph.D., University of Georgia, 2004
- LASHELL, BETH ANNE, Visiting Instructor of Agriculture
B.S., Ohio State University, 1984
M.S., Colorado State University, 1986
- LEE NATHAN KEKOA, Assistant Professor of Theatre (2005)
B.A., University of Hawaii/Manoa, 1993
M.F.A., University of Hawaii/Manoa, 1996
- LIENERT, CARL FRIEDRICH, Assistant Professor of Mathematics (2001)
S.B., Massachusetts Institute of Technology, 1990
Ph.D., University of Colorado/Boulder, 1998
- LINDSEY, J. PAGE, Professor of Biology (1978)
B.A., Hendrix College, 1970
M.S., University of Arizona, 1972
Ph.D., University of Arizona, 1975
- LOATS, JEFFREY THOMAS, Assistant Professor of Physics/Engineering (2004)
B.S., Fort Lewis College, 1997
M.S., Oregon State University, 2001
Ph.D., Oregon State University, 2004
- LOUNGE, JOSEPH PATRICK, Associate Professor of Teacher Education (1996)
B.A., Colorado State University, 1971
M.A., Colorado State University, 1979
Ph.D., University of Northern Colorado, 1986
- LUM, DENNIS W., Associate Professor of Sociology/Human Services (1975)
B.A., University of Nevada/Reno, 1966
M.A., University of Nevada/Reno, 1971
M.A., University of California/San Diego, 1973
- LYON, CHRIS ANN SANDER, Visiting Instructor of Accounting
B.A., Fort Lewis College, 1986
M.S., University of Colorado, 1990
C.P.A., Colorado, 1988
- LYON, DOUGLAS WILLIAM, Associate Professor of Management (2002)
B.A., Fort Lewis College, 1987
Ph.D., University of Kentucky, 1997
C.P.A., Colorado
- MACK, LINDA S., Professor of Music (1982)
B.M.E., Illinois State University, 1975
M.S., University of Illinois, 1980
Ed.D., University of Illinois, 1982
- MALACH, MICHELE MARIE, Associate Professor of English (1994)
B.A., Auburn University, 1986
M.A., Auburn University, 1988
Ph.D., University of Texas, 2000
- MANN, ROCHELLE G., Professor of Music (1987)
B.M.E., Indiana University, 1975
M.S., Indiana University, 1980
D.M.A., Arizona State University, 1991
- MARTIN, MICHAEL THOMAS, Assistant Professor of History, and Gender and Women's Studies (2005)
B.A., University of Iowa, 1989
M.A., Western Michigan University, 1996
Ph.D., Western Michigan University, 2005
- MAY, DONALD R., Professor of Engineering (1984)
B.S., Colorado State University, 1978
M.S., Colorado State University, 1982
Ph.D., Colorado State University, 1993
- MCALISTER, ERICH ANDREW, Assistant Professor of Mathematic (2005)
B.A., University of Colorado/Boulder (1999)
Ph.D., University of Colorado/Boulder (2005)
- MCCORMICK, PETER JOHN Assistant Professor of Southwest Studies (2003)
B.G.S., The University of Kansas, 1993
M.A., Northern Arizona University, 1995
Ph.D., University of Oklahoma, 1999
- MCGURR, PAUL THOMAS, Assistant Professor of Accounting (2004)
B.S.B.A., John Carroll University, 1972
M.B.A., University of Indianapolis, 1994
Ph.D., Purdue University, 1996
C.P.A. Ohio, 1975
- MCHUGH, NEIL, Professor of History (1984)
B.A., University of Kentucky, 1972
M.A., Indiana University, 1974
Ph.D., Northwestern University, 1986
- MEYER, CARRIE ANN, Assistant Professor of Exercise Science (2005)
B.S., South Dakota State University, 1993
M.S., University of Oregon, 1996
Ed.D., Arizona State University, 2005
- MILLER, LUKE TRAVIS, Assistant Professor of Business Administration (2005)
B.S., University of Virginia, 1997
M.S., Auburn University, 2002
Ph.D., Auburn University, 2004
- MILOFSKY, ROBERT ERIC, Professor of Chemistry (1992)
B.S., Bates College, 1987
Ph.D., University of Colorado, 1991
- MOLLER, KATHRYN SARELL, Professor of Theatre, and Gender and Women's Studies (1994)
B.A., Mary Washington College, 1981
M.S., James Madison University, 1983
Ph.D., University of Colorado, 1993
- MOSELEY, MARY JEAN, Professor of English and Southwest Studies (1973)
B.A., University of New Mexico, 1964
M.A., University of New Mexico, 1970
Ph.D., University of North Dakota, 1985

- MOSS, SUSAN MARGARET, Professor of Art, and Gender and Women's Studies (1991)
 B.A., University of Iowa, 1979
 M.S., University of Missouri/Columbia, 1983
 M.F.A., University of Nebraska/Lincoln, 1991
- MULHERN, DAWN MICHELLE, Assistant Professor of Anthropology (2005)
 B.S., Cornell University, 1992
 M.A., University of Colorado, 1994
 Ph.D., University of Colorado, 1996
- MULL, FREDERICK HOBERT, Associate Professor of Finance, (1994)
 B.A., Texas A&I University, 1977
 M.B.A., Texas A&I University, 1982
 Ph.D., University of Georgia, 1990
- MYERS-McTEER, MIKYLAH, Assistant Professor of Music (2004)
 B.M., Oberlin Conservatory of Music, 1997
 M.M., University of Houston, 1999
 D.M.A., University of Houston, 2003
- NINNEMANN, JOHN LOUIS, Dean of Natural and Behavioral Sciences and Professor of Biology (2000)
 B.A., Saint Olaf College, 1966
 M.S., North Dakota State University, 1968
 Ph.D., Colorado State University, 1971
- ORR, DELILAH GAYLE, Associate Professor of English, and Gender and Women's Studies (1991)
 B.A., Fort Lewis College, 1971
 M.Ed., Harvard University, 1975
 Ph.D., Arizona State University, 1999
- ORTEGA, CATHERINE P., Associate Professor of Biology (1997)
 B.A., University of Colorado, 1987
 Ph.D., University of Colorado, 1991
- ORTEGA, JOSEPH C., Professor of Biology (1991)
 B.A., University of California/Los Angeles, 1980
 Ph.D., University of Colorado, 1988
- OWEN, DUGALD LEE, Associate Professor of Philosophy (1990)
 A.B., Stanford University, 1974
 M.A., University of California/Berkeley, 1982
 Ph.D., University of California/Berkeley, 1991
- OWINGS, STEPHANIE JANE, Associate Professor of Economics (2000)
 B.A., University of Southern California, 1985
 M.A., University of California, Los Angeles, 1988
 Ph.D., George Mason University, 1996
- PALKO-SCHRAA, SUSAN MICHELE, Visiting Instructor in the Writing Program
 B.A., University of New Mexico, 1982
 M.A., University of New Mexico, 1985
- PAUL, ELLEN LOUISE, Assistant Professor of History (2004)
 B.A., University of Wisconsin/Stevens Point, 1991
 M.A., University of Kansas, 1994
 Ph.D., University of Kansas, 1999
- PENNINGTON, JOHN CHARLES, Professor of Music (1993)
 B.A., University of Arizona, 1986
 M.M., University of Michigan, 1988
 D.M.A., Arizona State University, 1996
- PETERSEN, PAUL W., Professor of Exercise Science (1984)
 B.A., University of Northern Iowa, 1972
 M.A., University of Nebraska, 1976
 Ph.D., University of New Mexico, 1995
- RIECH, BRADLEY JOHN, Assistant Professor of Business Law (2005)
 B.B.A., University of Iowa, 1991
 J.D., Drake University, 1994
 L.L.M., University of Missouri, 2001
- RIGGS, CHARLES ROSS, JR., Assistant Professor of Anthropology (2002)
 B.A., University of Arizona, 1990
 M.S., University of Arizona, 1994
 Ph.D., University of Arizona, 1999
- ROBERTS-CADY, SARAH ELIZABETH, Associate Professor of Philosophy, and Gender and Women's Studies (2000)
 B.A., Linfield College, 1994
 Ph.D., Purdue University, 2000
- RODERICK, STEPHEN A., Provost, Vice President for Academic Affairs, and Professor of Education (1980)
 A.B., MacMurray College, 1966
 M.A., University of Iowa, 1970
 Ph.D., University of Iowa, 1973
- SALLINGER, JAN ELIZABETH, Associate Professor of Political Science, and Gender and Women's Studies (1997)
 B.A., University of Nebraska, 1984
 M.A., University of California, 1987
 Ph.D., University of California, 1995
- SANCHEZ-FLAVIAN, PATRICIA, Assistant Professor of Sociology (2001)
 B.A., Fort Lewis College, 1993
 M.A., University of New Mexico, 1995
 Ph.D., University of Kentucky, 2001
- SCOTT, FARON LESLIE, Associate Professor of English (1992)
 B.A., Southern Illinois University, 1984
 M.A., University of Missouri, 1986
 Ph.D., University of Missouri, 1992
- SEARS, SHARON RACHEL, Assistant Professor of Psychology (2006)
 B.A., Smith College, 1996
 M.A., University of Kansas, 2000
 Ph.D., University of Kansas, 2003
- SEIS, MARK CHARLES, Associate Professor of Sociology (1997)
 B.A., University of Wisconsin, 1987
 M.S. University of Wisconsin, 1989
 Ph.D., Indiana University of Pennsylvania, 1996
- SELLERS, MINNA DENT, Librarian and Associate Professor (1995)
 B.A., University of New Mexico, 1979
 M.A., University of Chicago, 1987
- SELLIN, AMY LINDA, Visiting Instructor of Modern Language
 B.A., University of California, Berkeley, 1993
 M.A., Brown University, 1997
- SHULER, PHILIP EPPS, Professor of Agriculture (1991)
 B.S., University of Delaware, 1977
 M.S. University of Kentucky, 1980
 Ph.D., Oregon State University, 1991
- SILVERSMITH (WALSTATER), ELAYNE, Librarian and Associate Professor (1996)
 B.A., Fort Lewis College, 1987
 M.L.S., Emporia State University, 1995
- SIMBECK, CATHY L., Assistant Professor of Exercise Science (1984)
 B.A., University of California, 1975
 M.A., California State University, 1983
- SKURKY, THOMAS A., Professor of Psychology (1984)
 A.B., University of California, 1971
 C. Phil., University of California, 1977
 Ph.D., University of California, 1980
- SLUSS, THOMAS P., Professor of Biology (1980)
 B.A., Western Reserve University, 1963
 M.A., Kent State University, 1972
 Ph.D., University of Arizona, 1977

- SMITH, CAROL LYNN, Dean of Enrollment Services and General Education and Professor of Management/Communications, and Gender and Women's Studies (1993)
 B.A., University of South Florida, 1983
 M.A., University of Wyoming, 1985
 M.B.A., University of Kentucky, 1993
 Ph.D., University of Iowa, 1990
- SMITH, DUANE A., Visiting Professor of Southwest Studies (1964)
 B.A., University of Colorado, 1959
 M.A., University of Colorado, 1961
 Ph.D., University of Colorado, 1964
- SMITH, PAMELA KAREN MAUREEN, Associate Professor of Mathematics (1998)
 B.S., Brown University, 1983
 M.A., Wheeling Jesuit University, 1989
 Ed.D., Temple University, 2000
- SOMMERVILLE, LESLIE EUGENE, Professor of Chemistry (1991)
 B.S., Fort Lewis College, 1980
 Ph.D., University of Minnesota, 1985
- SONORA, ROBERT JAMES, Assistant Professor of Economics (2005)
 B.A., Connecticut College, 1987
 M.A., The University of Essex/U.K., 1991
 M.A., The Ohio State University, 1993
 Ph.D., The Ohio State University, 1998
- STEWART, MARY KAY, Visiting Instructor, Freshman Math Program
 B.A., Benedictine College, 1975
 M.A., University of Colorado, 1983
- STOVALL, STEPHEN, Visiting Instructor of Marketing
 B.S., University of Pennsylvania, 1962
 M.A., University of Pennsylvania, 1963
- STREMB, Robert Henry, Associate Professor of Exercise Science and Director of Adventure Education Program (2006)
 B.A., University of New Hampshire, 1969
 M.S. Ed., Indiana University, 1971
 Ed.D., Indiana University, 1977
- TAYLOR, RONALD GENE, Associate Professor of Teacher Education (1994)
 B.A., Southern Colorado State College, 1970
 M.Ed., Central State University, 1971
 Ed.D., University of Oklahoma, 1979
- TISCHHAUSER, KATHERINE DAWN JETTER, Associate Professor of Music (1997)
 B.M., East Carolina University, 1991
 M.M., Florida State University, 1993
 D.M.A., Florida State University, 2002
- TRUJILLO, JENNIFER LANE, Associate Professor of Teacher Education (2002)
 B.A., Fort Lewis College, 1993
 M.A., University of Northern Colorado, 1998
 Ed.D., The Fielding Institute, 2002
- TYLER, CRAIG EDWARD, Assistant Professor of Physics (2002)
 B.S., University of Pennsylvania, 1996
 M.S., University of Chicago, 2000
 Ph.D., University of Chicago, 2002
- VICENTI, CAREY NORLAND, Associate Professor of Sociology (1999)
 B.S., Oregon State University, 1983
 J.D., University of New Mexico, 1985
- WALKER, DEBORAH LOU, Associate Professor of Economics (2002)
 B.S., Arizona State University, 1980
 M.B.A., Arizona State University, 1982
 M.A., George Mason University, 1986
 Ph.D., George Mason University, 1987
- WALLS, SIMON GEORGE, Assistant Professor of Marketing (2003)
 B.S., Brigham Young University, 1986
 M.B.A., Western Washington University, 1988
 Ph.D., University of Tennessee, 2003
- WALTERS, MARK ALAN, Associate Professor of Music (1997)
 B.M.E., Henderson State University, 1980
 M.M., University of Central Arkansas, 1991
 D.M.A., Arizona State University, 1997
- WELLBORN, KATHRYN C., Visiting Instructor, Freshman Math Program
 B.S., Colorado State University, 1972
- WENDLAND, AMY KATHERINE, Associate Professor of Art (2000)
 B.F.A., Rhode Island School of Design, 1987
 M.A., University of Wisconsin, 1999
 M.F.A., University of Wisconsin, 2000
- WHEELOCK, RICHARD M., Associate Professor of Southwest Studies (1985)
 B.A., Fort Lewis College, 1972
 M.A., University of Arizona, 1984
 Ph.D., University of New Mexico, 1995
- WHITE, WILLIAM SCOTT, Associate Professor of Geology (1999)
 B.S., Tennessee Technological University, 1987
 M.S., Texas Christian University, 1991
 Ph.D., University of Utah, 2001
- WILHELM, SUZANNE LYNN, Assistant Professor of Business Law (2001)
 B.S., Eastern Michigan University, 1983
 J.D., University of Detroit Mercy School of Law, 1986
 L.L.M., Columbia University School of Law, 1991
- WILLIAMS, LAURIE LEAJEAN, Assistant Professor of Physics/Engineering (2004)
 B.S., Colorado State University, 1983
 M.A., University of Denver, 1997
 Ph.D., Colorado State University, 2001
- WILSON, SHERRI MICHELLE, Visiting Instructor, Freshman Math Program
 B.A., Texas Tech University, 2001
 M.S., Texas Tech University, 2004
- WOLDEMARIAM, YOHANNES, Assistant Professor of Political Science (2007)
 B.S., Colorado State University, 1987
 M.A., California State University, 1997
- YOOS, CHARLES JACOB, II, Visiting Professor of Management
 B.S., U.S. Air Force Academy, 1968
 M.B.A., University of California, Los Angeles, 1969
 D.B.A., University of Colorado, 1978

FACULTY/STAFF EMERITI

ALCAZAR, REINALDO M., Professor of Modern Language Emeritus
B.A., University of Northern Colorado
M.A., University of Colorado
Ph.D., University of Colorado

ANGUS, EDWARD L., Professor of Political Science Emeritus
A.B., University of Kentucky
M.A., Pennsylvania State University
Ph.D., Pennsylvania State University

ANDERSON, BERNARD E. Professor of Business Administration Emeritus
B.S., Arizona State University
M.A., University of Arizona
Ph.D., Ohio State University

ASH, JAMES K., Associate Professor of History Emeritus
A.B., University of California/Berkeley
A.M., Harvard University

ATENCIO, LEONARD D., Professor of Economics Emeritus
B.A., Fort Lewis College
Ph.D., Kansas State University

BASS, DAVID J., Professor of Political Science and Philosophy Emeritus
B.S., Ohio State University
M.A., University of Chicago
Ph.D., University of Chicago

BEDOR, DONNA AGNES, Librarian and Associate Professor Emerita
B.A., Mt. Angel College
M.L.S., University of Denver

BELL, GREGORY W., Professor of Mathematics Emeritus
B.A., University of Utah
M.A., University of Michigan
Ph.D., University of Michigan

BIRD, G. LEONARD, Professor of English Emeritus
B.A., San Diego State College
M.A., University of Utah
Ph.D., University of Utah

BLACK, DANIEL E., Vice President for Financial Affairs Emeritus
A.A., Mesa College
B.S., University of Colorado

BLAIR, ROBERT W., JR., Professor of Geology Emeritus
B.S., University of New Mexico
Ph.D., Colorado School of Mines

BLEDSOE, TROY D., Professor of Exercise Science Emeritus
B.A., Hendrix College
M.A., Memphis State University
Ph.D., University of Denver

BOWMAN, FRANK O., JR., Professor of Geology Emeritus
A.B., Williams College
B.S., University of North Carolina
Ph.D., University of North Carolina

BREW, DOUGLAS, Professor of Geology Emeritus
A.B., Dartmouth College
M.S., Cornell University
Ph.D., Cornell University

BURNS, SAMUEL A., Professor of Sociology/Human Services Emeritus
B.A., University of San Francisco
Ph.D., University of Colorado

BUSHNELL, DONALD D., Professor of Mathematics Emeritus
B.S. Kearney State College
M.A., University of Northern Colorado
Ed.D., University of Northern Colorado

CAMPBELL, JOHN A., Professor of Geology Emeritus
B.G., University of Tulsa
M.S., University of Colorado
Ph.D., University of Colorado

CANO-MONTENEGRO, MIGUEL FEDERICO, Professor of Modern Language Emeritus
B.S., University of Mexico
B.S., St. Louis University
M.A., St. Louis University
Ph.D., St. Louis University

CANTILLANO, ODILIE A., Associate Professor of Foreign Languages Emerita
B.A., West Virginia University
M.A., West Virginia University
Ph.D., University of Arizona

CAPP, CLIFFORD B., Associate Professor of Mathematics Emeritus
B.S., Colorado State University
M.S., Colorado State University

CARGILE, ELLEN, Professor of Art Emerita
B.S., University of Texas
M.Ed., University of Arkansas

CAVE, JOHN E., Professor of Business Administration Emeritus
B.S., University of Minnesota
M.S., University of Minnesota
Ph.D., University of Minnesota

CLAY, CHERYL DUDTE, Associate Professor of Teacher Education Emerita
B.A., Kansas State University
M.A., Kansas State University
Ph.D., University of Denver

CLAY, JAMES P., Professor of Business Administration/Economics Emeritus
B.A., University of Colorado
M.A., Kansas State University
Ph.D., Kansas State University
C.M.A.

COBURN, MARK DAVID, Professor of English Emeritus
A.B., University of Chicago
M.A., Stanford University
Ph.D., Stanford University

COE, WILLIAM, Professor of Philosophy Emeritus
A.B., Dartmouth College
M.A., Vanderbilt University
Ph.D., Pennsylvania State University

COLEMAN, JEREMY J., Professor of Business Administration Emeritus
B.S., Princeton University
M.P.A., Harvard University
D.B.A., George Washington University

COLGAN, JOSEPH C., Professor of Accounting Emeritus
B.A., Kearney State College
M.B.A., University of Denver
Ph.D., North Texas State University
C.P.A., Colorado

COOK, ROY ALLEN, Professor of Business Administration Emeritus
B.B.A., Southwest Texas State
M.B.A., Sam Houston State University
D.B.A., Mississippi State University

COOPER, ANNETTE J., Professor of Mathematics Emerita
B.S., Southwestern State College
M.N.S., Oklahoma University
Ed.D., Oklahoma State University

CORMAN, LAWRENCE S., Professor of Business Administration Emeritus
B.A., Texas Tech University
M.S., Texas Tech University
Ph.D., University of North Texas

- COSTELLO, JAMES M., Professor of Physics Emeritus
B.A., Doane College
M.S., University of Nebraska
Ph.D., University of Nebraska
- DECKER, JAMES C., Professor of Political Science Emeritus
B.A., University of Illinois
M.A., University of Colorado
Ph.D., University of Colorado
- DIN, GILBERT C., Professor of History Emeritus
A.B., University of California
M.A., University of California
Doctor en Filosofia y Letras, University of Madrid
- DOLPHIN, ROBERT, JR., Professor of Finance Emeritus
B.S., Indiana University
M.B.A., Indiana University
D.B.A., Michigan State University
- ECKENRODE, THOMAS R., Professor of History Emeritus
A.B., St. Vincent College
M.A., University of Colorado
Ph.D., St. Louis University
- ELLINGSON, JACK A., Professor of Geology Emeritus
B.S., University of Washington
M.S., University of Washington
Ph.D., Washington State University
- ELLIS, RICHARD N., Professor of Southwest Studies Emeritus
B.A., University of Colorado
M.A., University of Colorado
Ph.D., University of Colorado
- ENGLHART, STANTON, Professor of Art Emeritus
B.F.A., University of Colorado
M.F.A., University of Colorado
- ERICKSON, JAMES G., Professor of Biology Emeritus
B.A., Doane College
M.S., Iowa State University
Ph.D., University of Wyoming
- FITZGERALD, JAMES, Professor of Sociology/Human Services and Modern Language Emeritus
B.A., University of Notre Dame
M.A., University of Wyoming
Ph.D., University of Colorado
- GASSER, LARRY W., Professor of English Emeritus
B.A., Western Washington State College
M.A., Western Washington State College
Ph.D., University of Denver
- GIBBS, RICHARD A., Professor of Mathematics Emeritus
B.A., Michigan State University
M.S., Michigan State University
Ph.D., Michigan State University
- GIERSCH, MARVIN L., Professor of Education and Exercise Science Emeritus
B.S., Fort Hays Kansas State College
M.S., Baylor University
Ed.D., University of Northern Colorado
- GOFF, J. LARRY, Professor of Business Administration Emeritus
B.A., University of Oklahoma
J.D., University of Oklahoma
M.A., Adams State College
- GORDON, DONALD R., Professor of Anthropology Emeritus
B.A., California State University/San Francisco
M.S., University of Oregon
Ph.D., University of Oregon
- GRAHAM, REGINALD A., Professor of Business Administration Emeritus
B.S., Miami University
M.B.A., Kent State University
Ph.D., Case Western Reserve University
- GREFSRUD, GARY W., Professor of Mathematics Emeritus
B.S., Montana State College
M.S., Montana State University
Ph.D., Montana State University
- HAMILTON, RODNEY D., Professor of Chemistry Emeritus
B.S., University of Florida
M.B.A., Old Dominion University
Ph.D., Indiana University
- HARRINGTON, ROBERT P., Associate Professor of Accounting Emeritus
B.S., University of Florida
M.B.A., Old Dominion University
Ph.D., Virginia Polytechnic Institute and State University
- HARRISON, E. MERLE, Professor of Chemistry Emeritus
B.S., Brigham Young University
M.S., Colorado State University
Ph.D., Colorado State University
- HAYES, WILLIAM E., Assistant Professor of Exercise Science Emeritus
B.S., University of New Mexico
M.A., University of New Mexico
- HEIDY, NICHOLAS J., Professor of Psychology Emeritus
A.B., Adams State College
M.A. Adams State College
Ed.D., Northern Colorado University
- HENDERSON, MIRIAM T., Assistant Professor of Business Education Emerita
B.S., University of Utah
M.S.B.A., University of Denver
- HOLEHAN, EUGENE LEE, Professor of Business Education Emeritus
B.A., Arizona State University
M.A., Northern Arizona University
Ed.D., Arizona State University
- HUNT, DAVID J., Associate Professor of Art Emeritus
B.A., Brigham Young University
M.A., Brigham Young University
- HUNTER, DOREEN, Professor of History Emerita
B.A., Stanford University
M.A., University of California/Berkeley
Ph.D., University of California/Berkeley
- IVERSON, MARTHA SUSAN, Associate Professor of Physics Emerita
B.A., University of Colorado
Ph.D., University of Colorado
- JAMIESON, DAVID W., Professor of Biology Emeritus
A.B., Humboldt State University
M.A., Humboldt State University
Ph.D., University of British Columbia
- JONES, JOEL M., President Emeritus and Interdisciplinary Professor Emeritus
B.A., Yale University
M.A., Miami University
Ph.D., University of New Mexico
- JUDGE, W. JAMES, Professor of Anthropology, Emeritus
B.A., University of New Mexico
Ph.D., University of New Mexico
- KELLY, REECE, C., Professor of History Emeritus
B.A., Eastern Washington State College
M.A., University of Washington
Ph.D., University of Washington

- KNIGHT, GARY D., Professor of Education Emeritus
B.S., East Central State College
M.T., East Central State College
Ed.S., Eastern New Mexico University
Ed.D., University of New Mexico
- KUSS, ADOLPH M., JR., Professor of Exercise Science Emeritus
B.A., Western State College of Colorado
M.A., Western State College of Colorado
- LANG, LILLIAN B., Professor of English Emerita
B.A., Portland State University
M.A., University of California
Ph.D., University of California
- LANGWORTHY, WILLIAM C., Professor of Chemistry Emeritus
B.S., Tufts University
Ph.D., University of California
- LEAVITT, DINAH L., Professor Emerita
B.A., University of Mississippi
M.A., University of Mississippi
Ph.D., University of Colorado
- LEFTWICH, MARILYN STACEY, Associate Professor of Psychology Emerita
B.S., University of Alabama
M.S., Florida State University
Ph.D., Florida State University
- LEYERLE, BETTY J., Professor of Sociology/Human Services Emerita
B.A., Brooklyn College
M.A., Brooklyn College
Ph.D., City University of New York
- LIKES, ROBERT N., Professor of Physics Emeritus
B.A., Wayne State College
M. Sci.Ed., University of Utah
Ph.D., University of Wyoming
- LINTON, NORMAN, Professor of Sociology/Human Services Emeritus
B.A., Reed College
M.A., University of Oregon
Ph.D., University of California
- LIU, ESTHER T.C., Librarian and Associate Professor Emerita
B.A., National Fu Tah University
M.A., University of Minnesota
M.A., University of Denver
Ed.D., University of Northern Colorado
- LYNCH, VERNON E., JR., Professor of Economics Emeritus
B.A., University of Texas/Austin
M.A., University of Texas/Austin
Ph.D., University of Arizona
C.P.A., Colorado
- McMILLAN (MacKEEFE), DEBORAH A., Professor of Modern Language Emerita
Degre Superieur, Sorbonne
B.A., University of Arizona
M.A., University of Arizona
Ph.D., University of Arizona
- MANSFIELD, HAROLD L., Professor of Psychology Emeritus
B.S., Colorado State University
M.A., University of Denver
Ph.D., University of Denver
- McKNIGHT, REED, Professor of Accounting Emeritus
B.S., University of Idaho
M.B.A., Washington State University
Ph.D., University of Oregon
C.P.A., Montana
- MEHS, DOREEN M., Professor of Chemistry Emerita
B.A., Harpur College
M.A., State University of New York
Ph.D., University of New Mexico
- MEMON, IQBAL A., Professor of Business Administration Emeritus
B. Com., University of SIND
M. Com., University of SIND
M. Phil., University of SIND
M.B.A., Illinois State University
D.B.A., Mississippi State University
- MILLS, JAMES W., Professor of Chemistry Emeritus
A.B., Earlham College
Ph.D., Brown University
- MOSHER, NICOLE MARIE, Professor of Modern Language Emerita
B.A., Northern Illinois University
M.A., University of California
Ph.D., University of California
- NORTON, TOM D., Professor of Physics and Engineering Emeritus
B.S., University of Oklahoma
M.S., University of Oklahoma
Ph.D., University of Oklahoma
- PAVICH, PAUL N., Professor of English Emeritus
B.A., Walsh College
M.A., Colorado State University
Ph.D., University of New Mexico
- PERRY, O.D., Professor of Business Administration Emeritus
B.B.A., New Mexico State University
M.S., New Mexico State University
D.B.A., United States International University
- PETERSON, CARROLL V., Professor of English Emeritus
B.S., University of Minnesota
M.A., University of Iowa
Ph.D., University of Iowa
- PIXLER, PAUL W., Professor of Philosophy Emeritus
A.B., Kletzing College
B.D., Asbury Theological Seminary
S.T.M., Harvard University
Ph.D., Boston University
- PODLESNIK, RICHARD A., Professor of Business Administration Emeritus
B.S., Illinois Institute of Technology
M.S., Illinois Institute of Technology
Ph.D., Northwestern University
- RAMALEY, WILLIAM C., Professor of Mathematics Emeritus
B.S., Ohio State University
M.A., University of Colorado
Ph.D., University of Colorado
- REBER, MICK, Professor of Art Emeritus
B.F.A., Brigham Young University
M.F.A., Brigham Young University
- REID, CHARLES H., JR., Assistant Professor of Education Emeritus
A.B., Montclair State College
M.Ed., University of Colorado
- RICHES, SUSAN M., Professor of Anthropology Emerita
B.A., Eastern New Mexico University
M.A., University of Wisconsin/Madison
Ph.D., University of Wisconsin/Madison
- RITCHEY, JOHN M., Professor of Chemistry Emeritus
B.A., Wichita State University
Ph.D., University of Colorado
- ROSENBERG, HARRY C., Associate Professor of Mathematics Emeritus
B.A., University of Northern Colorado
M.A., University of Northern Colorado
M.A., University of Illinois
- RYAN, INGRID W., Professor of Modern Language Emerita
Diplom-Dolmetsch, University of Vienna
M.A., Indiana University
Ph.D., University of Oregon

- SHIPPS, HARROLD S., JR., Librarian and Professor Emeritus
B.S., Bridgewater State College
M.Ed., Bridgewater State College
M.S.P.A., George Washington University
M.A., Librarianship, University of Denver
Ph.D., University of Denver
- SIMMONS, JANICE L., Professor of Teacher Education Emerita
B.A., University of Arizona
M.Ed., University of Arizona
Ed.D., University of Northern Colorado
- SIMMONS, LINDA LOUISE, Professor of Teacher Education Emerita
B.A., New Mexico Highlands University
M.A., University of New Mexico
Ph.D., University of New Mexico
- SOIGNIER, JOANN, Associate Professor of Exercise Science Emerita
B.A., Fort Lewis College
M.A., Adams State College
Ed.D., University of Northern Colorado
- SOMERS, LEE PRESTON, Professor of Biology Emeritus
B.S., Wake Forest University
M.A. University of Colorado
Ph.D., University of Colorado
- SPANGSBERG, DONALD, Associate Professor of Engineering Emeritus
B.A., Kearney State Teachers College
M.A., University of Northern Colorado
- SPEAR, KAREN I., Professor of English Emerita
B.A., University of Maryland
Ph.D., The American University
- SPENCER, ALBERT W., Professor of Biology Emeritus
B.A., Colorado State University
M.S., Colorado State University
Ph.D., Colorado State University
- STEINLE, HARLAN L., Vice President for Institutional Advancement and Admission Emeritus
B.A., Fort Lewis College
M.A., Northern Arizona University
- STRAWN, RICHARD G., Professor of Music Emeritus
B.M., University of Redlands
M.M., Indiana University
- SZUECS, LASZLO, Professor of Mathematics and Computer Science Emeritus
B.A., Phillips University
Ph.D., Johns Hopkins University
M.S., University of Colorado
- TAPIA, JOHN R., Professor of Foreign Languages Emeritus
B.A., West Virginia State College
L.L.B. & J.D., Blackstone School of Law
M.A., University of Utah
Ph.D., University of Utah
- TATE, NORVEL G., Professor of Secondary Education Emeritus
B.A., New Mexico Highlands University
M.A., University of New Mexico
Ed.D., University of Southern California
- TUSTIN, CHARLES O., Professor of Business Administration Emeritus
B.S., Colorado State University
M.B.A., Arizona State University
Ph.D., Arizona State University
- VAN SICKLE, SHAILA, Professor of English Emerita
B.A., Carleton College
M.A. Occidental College
Ph.D., University of Denver
- VOGL, LAUREL C., Professor of Art Emerita
B.F.A., University of Southern California
M.F.A., Claremont Graduate School
- WALKER, CHARLES H., Professor of Exercise Science Emeritus
B.S., University of Nevada
M.Ed., University of Nevada
Ph.D., University of Utah
- WALKER, RICHARD C., Associate Professor of Mathematics Emeritus
B.S., Colorado School of Mines
M.S., Colorado School of Mines
Ph.D., Colorado School of Mines
- WELLS, C. GERALD, Professor of Art Emeritus
B.A., University of Mississippi
M.F.A., University of Mississippi
- WESTERVELT, THOMAS N., Associate Professor of Geology Emeritus
B.A., Middlebury College
Ph.D., University of Wyoming
- FERGUSON, (WILLIAMS) CARLA C., Professor of Engineering Emerita
B.S.S.E., John Brown University
M.A., University of New Mexico
Ph.D., University of New Mexico
- WILSON, RAY N., Professor of Education Emeritus
A.B., University of Northern Colorado
M.S., University of Northern Colorado
Ph.D., University of Northern Colorado
- WIXOM, JAMES A., Associate Professor of Mathematics and Computer Science Emeritus
B.S., University of Utah
Ph.D., University of Utah
- YALE, LAURA J., Associate Professor of Marketing Emerita
B.S., University of Massachusetts
M.S., University of Massachusetts
Ph.D., University of California, Irvine
- ZOLLER, JOHN H., Professor of Business Administration Emeritus
B.B.A., University of Minnesota
M.B.A., University of New Mexico
Ph.D., University of Arizona

INDEX

A

ABET. *See* Accreditation Board for Engineering and Technology
Academic Calendar, 2007-2008 5
Academic Explorers 134
Academic Faculty 207. *See also* Individual Degree Programs;
See also Faculty/Staff Emeriti
Academic Policies and Procedures 6
Accounting Major. *See* Business Administration, School of
Accounting Minor. *See* Business Administration, School of
Accreditation 9
Accreditation Board for Engineering and Technology 9, 62
Accuplacer Examination 10
ACT Credit 20
ACT Examination 10, 20
Administrative Personnel 206
Admission 6
Advanced Placement Program (AP) 18
Adventure Education 77
Adventure Education Major 79
Adventure Education Minor 79
Adventure Education Program Director 78
Agricultural Business major option. *See* Business
Administration, School of
Agriculture 30
Agricultural Science Degree 30
Agriculture Department Faculty 30
Agriculture Minor 31
Agroecology/Sustainable Agriculture Minor 31
American Chemical Society 9, 57, 59
American Council of Learned Societies 9
American Indian Studies. *See* Southwest Studies and American
Indian Studies
American Indian Studies Major. *See* Southwest Studies and
American Indian Studies
Anthropology 32
Anthropology Department Faculty 32
Anthropology Major 32
Anthropology - Sociocultural Minor 33
Archaeology Minor 33
Art 34
Art Department Faculty 34
Art History Minor 36
Art Major - Art option 34
Art Major - Business Art option 34
Art Major - Graphic Design option 35
Art Minor 36
Articulation Agreements 15
Assessment 6, 10
Association to Advance Collegiate Schools of Business
International 9, 42
Athletic Training major option. *See* Exercise Science

B

Basic Skills Requirements 10
Biochemistry major option. *See* Chemistry
Biology 37
Biology Department Faculty 37
Biology Major - Biology for Secondary Teachers option 41
Biology Major - Cellular and Molecular Biology option 37
Biology Major - Environmental and Organismic Biology
option 39
Biology Major - General Biology option 40
Biology Minor 41
Business Administration, School of (SOBA) 42
Accounting Major 44
Accounting Minor 55
Arts Administration major option. *See* Theatre
Business Administration Major - Agricultural Business
option 45
Business Administration Major - Business Administration
option 46
Business Administration Major - Engineering Management
option 47
Business Administration Major - Finance option 48
Business Administration Major - Information Management
option 48
Business Administration Major - International Business
option 49
Business Administration Major - Management option 50
Business Administration Major - Marketing Option 51
Business Administration Major - Tourism and Resort
Management option 52
Business Administration Minor 55
Business Art major option. *See* Art
Economics Major - Business Economics option 53
Economics Major - Economics option 53
Economics Minor 55
Entrepreneurship and Small Business Management
Minor 55
Junior Trimester Abroad (JTA) 43
Marketing Minor 56
Music Business major option. *See* Music
School of Business Mission 42
SOBA Faculty 42
Transfer Credits, Acceptance of 42

C

CAATE. *See* Commission on Accreditation of Athletic Training
Education
Campus Life 6
Catalog in Effect for Transfer Students 16
Cellular and Molecular Biology major option. *See* Biology
Certificate Programs 12
Geographic Information Systems (GIS) 12, 83
Heritage Resource Management 12, 32
Professional Certificate in Spanish 12, 97

Chemistry 57
 Chemistry Department Faculty 57
 Chemistry Major - Biochemistry option 58
 Chemistry Major - Chemistry for Secondary Teachers option 58
 Chemistry Major - Chemistry option 57
 Chemistry Major for Careers in the Health Professions 59
 Chemistry Minor 59
 Coaching Minor. *See* Exercise Science
 College Entrance Examination Board 18
 College Level Examination Program (CLEP) 20
 Colorado Basic Skills Assessment Policy 10
 Colorado Commission on Higher Education 13, 15
 Colorado Department of Education 7, 9, 74, 103, 125, 126, 127
 Commission on Accreditation of Athletic Training Education 9, 73, 74
 Communications major option. *See* English
 Communications Minor. *See* English
 Community and Regional Services 6
 Computer Science and Information Systems (CSIS) 60
 CSIS Department Faculty 60
 CSIS Major - Computer Science option 60
 CSIS Major - Information Systems option 61
 CSIS Minor 61
 Continuing Education 135
 Cooperative Education Program 134
 Council of Public Liberal Arts Colleges 9
 Course Descriptions 139
 Credit by Examination 18
 Criminology major option. *See* Sociology/Human Services
 Criminology Minor. *See* Sociology/Human Services
 CRS 23-1-113. *See* Colorado Basic Skills Assessment Policy
 CRS 23-1-125. *See* Student Bill of Rights

D

Degrees Offered 7
 Diné College 16
 Double Major 11
 Dual Language major option. *See* Modern Languages

E

Earth Science for Secondary Teachers major option. *See* Geosciences
 Economics Major - Business Economics option 53
 Economics Major - Economics option 53
 Economics major options 53
 Economics Minor 55
 Education for Global Citizenship. *See* General Education
 Engineering 62. *See also* Physics
 Engineering Faculty 62
 Engineering Management major option. *See* Business Administration, School of
 Engineering Minor. *See* Physics
 Engineering Physics major option. *See* Physics

English 63
 Communications Minor 66
 English Department Faculty 63
 English Major - Communications option 64
 English Major - English for Secondary Teachers option 65
 English Major - General option 63
 English Major - Writing option 64
 Literature Minor 65
 Writing Minor 66
 Enrichment Program 134
 Entrepreneurship and Small Business Management Minor. *See* Business Administration, School of
 Environmental and Organismic Biology major option. *See* Biology
 Environmental Geology major option. *See* Geosciences
 Environmental Policy Minor. *See* Environmental Studies (ENVS)
 Environmental Studies (ENVS) 67
 Environmental Policy Minor 71
 Environmental Studies Major - Culture option 68
 Environmental Studies Major - General option 68
 Environmental Studies Major - Policy option 69
 ENVS Coordinator and Faculty 67
 ESL (English as a Second Language). *See* Teacher Education Licensure Program, Additional Licensure Options
 Ethnic Studies major option. *See* Sociology/Human Services
 Exercise Science 72
 Athletic Training Education Program 73
 Coaching Minor 77
 Exercise Science Department Faculty 72
 Exercise Science Major - Athletic Training option 73
 Exercise Science Major - Exercise Science K-12 Teaching option 75
 Exercise Science Major - Exercise Specialist option 75
 Exercise Science Major - Sport Administration option 76
 Exercise Science Minor 77
 Extended Studies. *See* Continuing Education

F

Faculty/Staff Emeriti 213
 Finance major option. *See* Business Administration, School of
 Financial Aid 6
 Fort Lewis College
 Board of Trustees 205
 Campus 8
 Faculty 9. *See also* Academic Faculty
 History 7
 Location 8
 Mission Statement 7
 President's Cabinet 205
 Semester Calendar 9. *See also* Academic Calendar
 The College 7
 French Minor. *See* Modern Languages
 Freshman Mathematics Program 28

G

Gender and Women's Studies 81
Gender and Women's Studies Faculty 81
Gender and Women's Studies Major 81
Gender and Women's Studies Minor 82

General Education
Arts and Humanities (GAH), History (GHI), and Social and Behavioral Sciences (GSS) 24
Arts and Humanities (GAH) approved courses 25
Communication (GCO1 and GCO2) 23
Approved GCO1 courses 24
Approved GCO2 courses 24
Education for Global Citizenship 27
History (GHI) approved courses 25
Mathematics (GMA1) 24
Approved GMA1 courses 24
Physical and Life Sciences (GSC1 and GSC2) 26
Approved GSC1 courses 26
Approved GSC2 courses 26
Physical Well-Being 26
Requirements 23
Social and Behavioral Sciences (GSS) approved courses 25
Transfer of Credits 15. *See also* gtPathways

General Education Programs 28
Freshman Mathematics Program 28
Human Heritage Program 28
Writing Program 28

General Music Studies major option. *See* Music

Geographic Information Systems (GIS) Certificate.
See Geosciences

Geography. *See also* Geosciences

Geology. *See also* Geosciences

Geosciences 83
Geography Information Systems (GIS) Certificate 83
Geology Major - Earth Science for Secondary Teachers option 85
Geology Major - Environmental Geology option 84
Geology Major - Geology option 84
Geology Minor 85
Geosciences Department Faculty 83
Graduate School Preparation 85

German Minor. *See* Modern Languages

Graduation Requirements 11. *See also* Individual Degree Programs

Graduation Requirements for Second Bachelor's Degree Candidates 12

gtPathways 15, 23, 24, 25, 26, 30, 70

H

Health Careers Program Options 136
Medical School - Prerequisite Coursework at Fort Lewis College 137
Nursing - Prerequisites Offered at Fort Lewis College 137
Physician Assistant - Prerequisites Offered at Fort Lewis College 138
Higher Learning Commission 9, 14

History 86
History Department Faculty 86
History Major - European option 87
History Major - Social Studies for Secondary Teachers option 88
History Major - United States option 88
History Major - World option 89
History Minor 90
Honors. *See* John F. Reed Honors Program
Honors Council 135
Human Heritage Program 28
Humanities major program 91
Humanities Faculty Advisors 91

I

Information Management major option. *See* Business Administration, School of
Innovative Month 32, 42, 43, 50, 71, 91, 97, 115, 135, 138
Interdisciplinary Studies 92. *See also* Teacher Education
Interdisciplinary Studies Major - General option 94
Interdisciplinary Studies Major - Teacher Education option 92
International Baccalaureate (IB) 21
International Business major option. *See* Business Administration, School of
International Programs 138

J

Japanese. *See* Modern Languages
Jazz Studies major option. *See* Music
John F. Reed Honors Program 135
Junior Trimester Abroad (JTA). *See* Business Administration, School of (SOBA)

L

Latin. *See* Modern Languages
Liberal Education Outcomes 7
Literature Minor. *See* English

M

Management major option. *See* Business Administration, School of
Marketing major option. *See* Business Administration, School of
Marketing Minor. *See* Business Administration, School of
Mathematics 95
Mathematics Department Faculty 95
Mathematics Major 95
Mathematics Major - Mathematics for Secondary Education option 95
Mathematics Minor 96
Medical School. *See* Health Careers Program Options
Mexico Programs. *See* Sociology/Human Services
Military Service Credit 22
Minors 11. *See also* Individual Degree Programs

Modern Languages 97
Foreign Language Competence 97
French Minor 100
German Minor 100
Modern Languages Department Faculty 97
Modern Languages Major - Spanish-Dual Language
option 98
Modern Languages Major - Spanish-Latin American
option 98
Modern Languages Major - Spanish-Secondary Teachers
option 99
Modern Languages Major - Spanish-U.S. Latino Studies
option 99
Professional Certificate in Spanish 97
Spanish Major 97
Spanish Minor 100
Study Abroad 97

Mountain Studies

Mountain Studies Faculty 101
Mountain Studies Minor 101

Music 103

Music Department Faculty 103
Music Major 104
Music Major - General Music Studies option 104
Music Major - Jazz Studies option 105
Music Major - K-12 Teaching option 106
Music Major - Music Business option 105
Music Major - Music Performance option 106
Music Minor 107

N

National Association of Schools of Music 9, 103
Native American Studies Minor. *See* Southwest Studies and
American Indian Studies
Navajo Language. *See* Modern Languages
North Central Association of Colleges and Schools 9
Nursing. *See* Health Careers Program Options

P

Philosophy 108
Philosophy Department Faculty 108
Philosophy Major 108
Philosophy Minor 108
Physical Education (PE). *See* Exercise Science
Physical Science for Secondary Teachers major option.
See Physics
Physical Well-Being. *See* General Education
Physician Assistant. *See* Health Careers Program Options
Physics
Engineering Minor 112
Physics Department Faculty 110
Physics Major - Engineering Physics option 111
Physics Major - Physical Science for Secondary Teachers
option 111
Physics Major - Physics option 110
Physics Minor 112

Political Science 113
Political Science Department Faculty 113
Political Science Major 113
Political Science Minor 114
Pre-Health Advisory Committee 136
Pre-Law Minor 114
Professional Certificate in Spanish. *See* Certificate Programs
Psychology 115
Psychology Department Faculty 115
Psychology Major 115
Psychology Minor 115

R

Religious Studies 116
Religious Studies Faculty 116
Religious Studies Minor 116

S

San Juan College 16
SAT Examination 10
Second Bachelor's Degree 12
SOBA. *See* Business Administration, School of
Social Studies for Secondary Teachers major option.
See History
Sociology/Human Services 117
Criminology Minor 120
Mexico Programs 117
Sociology/Human Services Department Faculty 117
Sociology/Human Services Major - Criminology option 118
Sociology/Human Services Major - Ethnic Studies
option 119
Sociology/Human Services Major - General option 118
Sociology/Human Services Minor 120
Sociology Block Internship Program 117
Southwest Studies and American Indian Studies 121
American Indian Studies Major 121
Department Faculty 121
Native American Studies Minor 123
Southwest Studies Major 122
Spanish-Dual Language major option. *See* Modern Languages
Spanish-Latin American major option. *See* Modern Languages
Spanish-Secondary Teachers major option. *See* Modern
Languages
Spanish-U.S. Latino Studies major option. *See* Modern
Languages
Spanish Major. *See* Modern Languages
Spanish Minor. *See* Modern Languages
Special Academic Programs 134
Sport Administration major option. *See* Exercise Science
State Guarantee Transfer General Education. *See* gtPathways
Student Bill of Rights 13
Student Conduct Code 6
Student Constructed Major 124
Student Handbook 4
Student Services 6
Summer Programs 9

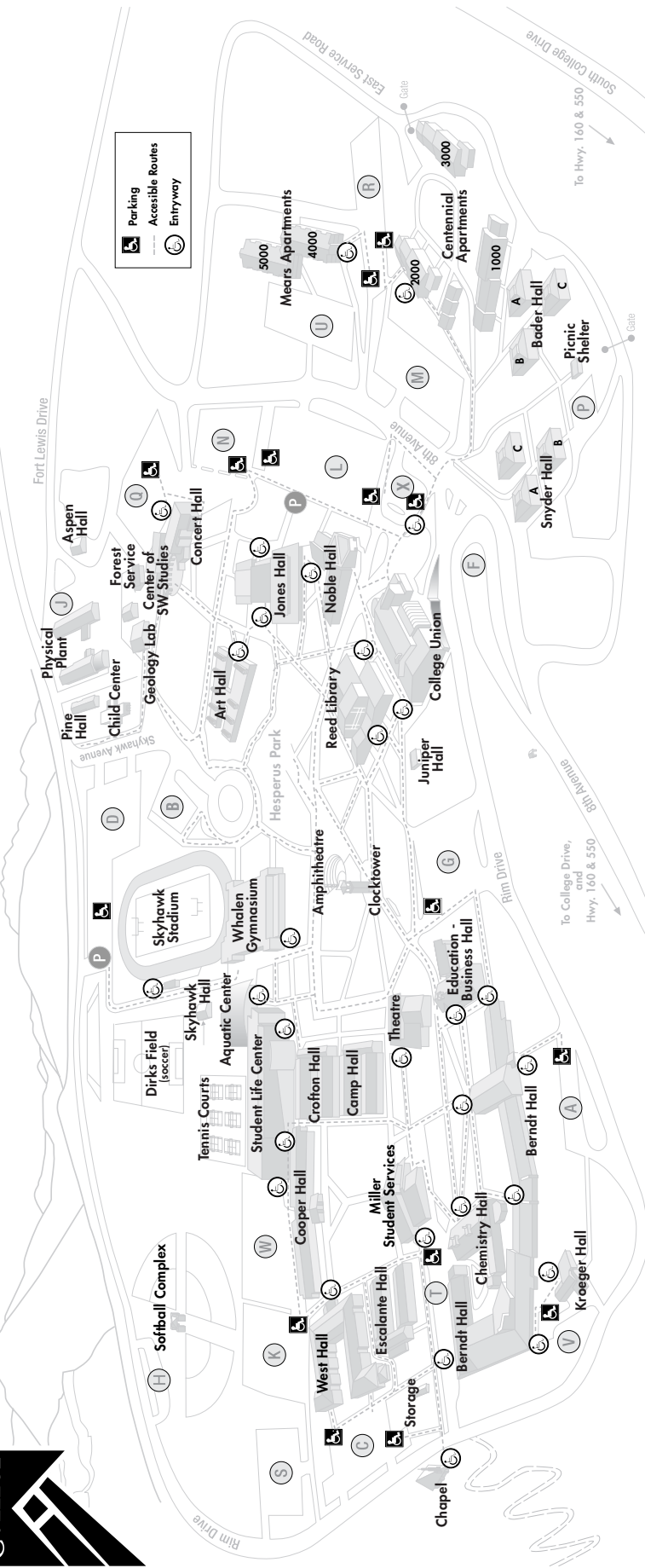
T

Teacher Education 125–129. *See also* Interdisciplinary Studies
Admission to Student Teaching 128
Teacher Education Accrediting Council 9
Teacher Education Course Descriptions. *See* Education Course Descriptions
Teacher Education Faculty 125
Teacher Education Licensure Program 125
Additional Licensure Options
Linguistically Diverse Education 127
Linguistically Diverse Education Specialist: Bilingual Preparation 127
Biology Major - Biology for Secondary Teachers option 41
Chemistry Major - Chemistry for Secondary Teachers option 58
English Major - English for Secondary Teachers option 65
Exercise Science Major - Exercise Science K-12 Teaching option 75
Geology Major - Earth Science for Secondary Teachers option 85
Licensure Programs at Fort Lewis College 126
Mathematics Major - Mathematics for Secondary Education option 95
Modern Languages Major - Spanish-Secondary Teachers option 99
Music Major - K-12 Teaching option 106
Physics Major - Physical Science for Secondary Teachers option 111
Steps to Becoming a Licensed Teacher 125
Theatre 130
Theatre Department Faculty 130
Theatre Major - Arts Administration option 132
Theatre Major - Design and Technical Theatre option 131
Theatre Major - Performance and Directing option 131
Theatre Minor 133
Theatre Major - Theatre Generalist option 130
Tourism and Resort Management major option. *See* Business Administration, School of
Transfer Disputes, Resolution of 17
Transfer Inquiry/Appeals Process 16
Transfer of Credit 14
Transfer of Degrees from International Institutions 16
Transfer of General Education 15. *See also* gtPathways
Transfer Policies 14
Transfer Students, Effective Catalog 16
Transfer Under Statewide Articulation Agreements 15
Tuition, Fees, and Expenses 6

W

Women's Studies. *See* Gender and Women's Studies
Writing major option. *See* English
Writing Minor. *See* English
Writing Program 28

Fort Lewis College Campus Map



AQUATIC CENTER/ATHLETICS

- Adventure Education
- Varsity Athletic Offices
- ART HALL**
- Art Department
- Art Gallery
- BERNDT HALL**
- Agriculture
- Biology
- Cashier
- Colorado Alliance for Minority Participation (COAMP)
- Computer Labs
- Continuing Education
- Controller's Office (Finance)
- Dean, Natural & Behavioral Sciences
- Educational Talent Search (TRIO program)
- Equal Opportunity Office
- Geosciences
- Grants Management
- Human Resources
- Information Technology
- Instructional Research
- Judicial Affairs (Student Conduct)
- Marketing & Communications Office
- Physics & Engineering
- Police & Parking Services
- Pre-Health
- President
- Provost & VP, Academic Affairs
- Public Affairs
- Purchasing
- Strategic Planning
- Upward Bound (TRIO program)
- VP, Student Affairs

CENTER OF SOUTHWEST STUDIES

- Anthropology
- Department of Local Affairs
- Office of Community Services
- Robert Delaney Southwest Research Library
- Southwest/American Indian Studies
- COLLEGE UNION (CUB)**
- Ballroom
- Blue & Gold Room
- Bookstore
- Cafeteria, coffee cart & snack bar
- Campus Dining (Meal plans)
- Colorado Room
- Environmental Center
- Events Planning
- Independent Newspaper
- Information Desk
- KDJUR Radio
- Leadership Center
- Off-Campus Housing Information
- Post Office
- Senate Chambers
- Skyard (I.D.) Office
- Student Government
- Memorial Student Lounge
- EDUCATION-BUSINESS HALL**
- Accounting
- Alumni Office
- Business Administration
- Computer Labs
- Computer Science Information Systems
- Dean, School of Business Administration
- Economics
- Mathematics

FOREST SERVICE (COLORADO STATE)

- Pre-Low
- Psychology
- Small Business Devel. Center
- Teacher Education
- VP, Finance & Administration
- FOREST SERVICE (COLORADO STATE)**
- Office
- Shop
- JONES HALL** (formerly Sage Hall)
- Common Reading Experience
- Dean, Enrollment Services & Gen Ed
- Freshman Mathematics Program
- Freshman Year Experience Program
- John F. Reed Honors Program
- Music
- Roshong Recital Hall
- Writing Program
- JUNIPER HALL**
- Program for Academic Advancement (TRIO program)
- KROEGER HALL**
- ADMISSION OFFICE**
- Foundation Office
- MILLER STUDENT SERVICES**
- Academic Advising & Student Success Center
- Career Services
- Cooperative Education
- Financial Aid
- Health Center
- Native American Center
- New Student Advising & Registration Office
- Registrar's Office (formerly Records)
- Student Housing & Conference Services

NOBLE HALL

- Counseling Center
- Dean, School of Arts, Humanities, & Social Sciences
- Disability Services
- English
- Gender & Women's Studies
- History
- International Programs
- Modern Languages
- Philosophy
- Political Science
- Testing Center
- PHYSICAL PLANT SERVICES**
- Central Stores
- Custodial Services
- Maintenance
- Project Management
- Service Center
- REED LIBRARY**
- Center for Civic Engagement
- Media Services
- Sociology/Human Services
- SKYHAWK HALL**
- Exercise Science Labs
- STUDENT LIFE CENTER**
- Club Sports
- Intramurals
- Outdoor Pursuits
- WHALEN GYMNASIUM**
- Exercise Science

HOUSING

- BADER RESIDENCE HALLS**
- A, B, C
- CAMP RESIDENCE HALL**
- 1000, 2000, 3000
- COOPER RESIDENCE HALL**
- 4000, 5000
- ESCALANTE RESIDENCE HALL**
- A, B, C
- SNYDER RESIDENCE HALLS**
- A, B, C
- WEST RESIDENCE HALL**
- A, B, C

PARKING LOTS

- A - Berndt Hall Lot
- B - Gymnasium Lot
- C - West Hall Lot
- D - Football Stadium Lot
- E - Front Hill Lot
- F - Education/Business Lot
- G - Softball Complex Lot
- H - Physical Plant Lot
- J - Cooper Hall Lot
- K - Jones/Noble Hall Lot
- L - Centennial East Lot
- M - Centennial West Lot
- N - Bader/Sheridan Lot
- O - Center of SW Studies Lot

PERMIT MACHINES FOR SHORT TERM PARKING

- Lots: D, I

VISITOR PARKING

- Lots: A, J, Q, V

METERED PARKING

- Lots: B, G, Q, X

HANDICAPPED PARKING

- All lots except: F, S and U

MOTORCYCLE PARKING

- Lots: A, B, C, D, G, J, L, M, U, W

PERMIT MACHINES FOR SHORT TERM PARKING

- Lots: D, I

VISITOR PARKING

- Lots: A, J, Q, V

METERED PARKING

- Lots: B, G, Q, X

HANDICAPPED PARKING

- All lots except: F, S and U

MOTORCYCLE PARKING

- Lots: A, B, C, D, G, J, L, M, U, W

PERMIT MACHINES FOR SHORT TERM PARKING

- Lots: D, I

VISITOR PARKING

- Lots: A, J, Q, V

METERED PARKING

- Lots: B, G, Q, X

HANDICAPPED PARKING

- All lots except: F, S and U

MOTORCYCLE PARKING

- Lots: A, B, C, D, G, J, L, M, U, W

PERMIT MACHINES FOR SHORT TERM PARKING

- Lots: D, I

96

**ACADEMIC
OPTIONS**

**TO CHOOSE
FROM...
ALLOWING YOU
TO CREATE
A DEGREE
PROGRAM
THAT'S PERFECT
FOR YOU.**

Accounting
Adventure Education
Agricultural Science
**Agroecology/Sustainable
Agriculture**
American Indian Studies
Anthropology
Archaeology
Heritage Resource Management
Sociocultural Anthropology

Art
Art History
Business Art
Graphic Design
K-12 Teaching

Biology
Biology for Secondary Teachers
Cellular & Molecular
Environmental & Organismic

Business Administration
Agricultural Business
Engineering Management
Finance
Information Management
International Business
Management
Marketing
Tourism & Resort Management

Chemistry
Biochemistry
Chemistry for Secondary
Teachers

Computer Science
Information Systems
Economics
Business Economics
**Entrepreneurship & Small
Business Management**
Engineering
English
Communications
English for Secondary Teachers
Literature
Writing

Environmental Studies
Culture
Policy

Exercise Science
Athletic Training
Coaching
Exercise Specialist
K-12 Teaching
Sports Administration

French

Gender & Women's Studies

**Geographic Information
Systems**

Geology
Earth Science for Secondary
Teachers
Environmental Geology

German

History
European
Social Studies for Secondary
Teachers
United States
World

**Honors Program
Humanities**

Interdisciplinary Studies
Mathematics
Mathematics for Secondary
Education

**Mountain Studies
Music**

Jazz Studies
K-12 Teaching
Music Business
Music Performance

Philosophy

Physics
Engineering Physics
Physical Science for Secondary
Teachers

Political Science

Pre-Health

Pre-Law

Psychology

Religious Studies

Sociology/Human Services

Criminology
Ethnic Studies

Southwest Studies

Spanish

Dual Language
Latin American
Secondary Teachers Option
U.S. Latino Studies

**Student Constructed Major
Teacher Licensure Programs**

Early Childhood (birth –3)
Elementary (K-6)

K-12
Art
Physical Education
Music

Secondary (7-12)
English

Mathematics
Science
Social Studies
Spanish

Theatre

Arts Administration
Design & Technical Theatre
Performance & Directing



OFFICE OF ADMISSION
1000 Rim Drive
Durango, CO 81301-3999

Change Service Requested

Non-Profit
U.S. Postage
PAID
Durango, Colorado
Permit No. 78