



# Academic Catalog

## 2005 - 2006

This catalog outlines, in detail, course requirements needed to complete the various degree programs Fort Lewis College offers.

Students assume the responsibility of reading the catalog, completing a minimum of 120 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.

Students will be assigned an advisor to help them with the appropriate course selections, but students assume the ultimate responsibility of knowing and completing all graduation requirements.

For More Information Contact:

Records Office  
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Durango, CO 81301-3999  
Phone: 970-247-7350  
E-mail: [records@fortlewis.edu](mailto:records@fortlewis.edu)

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1000 Rim Drive  
Durango, CO 81301-3999  
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As a prospective student to Fort Lewis College, 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. A full copy of the report is available on the College web site, [www.fortlewis.edu](http://www.fortlewis.edu), or if you would like a full copy of this report, please notify the Vice President for Student Affairs Office, Fort Lewis College, 1000 Rim Drive, Durango, CO, 81301-3999; 970-247-7314.

Fort Lewis College does not discriminate on the basis of age, race, color, sexual orientation, religion, national origin, sex, veteran status or disability in admission or access to, or treatment or employment in, its education programs or activities. 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.

# 2005-06 ACADEMIC CALENDAR

## **FALL SEMESTER 2005**

*Classes begin	Monday, August 29
Deadline for adding classes (Census date)	Tuesday, September 13
Deadline for dropping individual classes without a recorded grade (Census date)	Tuesday, September 13
Mid-term grades due	Monday, October 17
Winter Semester Registration:	
Advising	Monday-Friday, October 24-November 4
Registration	Monday-Friday, November 7-18
Thanksgiving Break	Monday-Friday, November 21-25
**Last Day of Classes	Friday, December 9
Final Exams	Monday-Friday, December 12-16
Commencement	Saturday, December 17
Final Grades Due	Monday, December 19, 10:00 a.m.

## **WINTER SEMESTER 2006**

*Classes begin	Monday, January 9
Deadline for adding classes (Census date)	Tuesday, January 24
Deadline for dropping individual classes without a recorded grade (Census date)	Tuesday, January 24
Mid-term grades due	Monday, February 27
Spring Break	Monday-Friday, March 6-10
Fall Semester & Summer Registration:	
Advising	Monday-Friday, March 13-24
Registration	Monday-Friday, March 27-April 7
**Last day of classes	Friday, April 21
Final exams	Monday-Friday, April 24-28
Commencement (two ceremonies)	Saturday, April 29
Final grades due	Monday, May 1, 10:00 a.m.

## **1ST 5-WEEK SESSION 2006**

*Classes begin	Monday, May 1
Deadline for adding classes (Census date)	Friday, May 5
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, May 5
**Last day of classes	Friday, June 2
Final grades due	Monday, June 5, 10:00 a.m.

## **2ND 5-WEEK SESSION 2006**

*Classes begin	Monday, June 5
Deadline for adding classes (Census date)	Friday, June 9
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, June 9
**Last day of classes	Friday, July 7
Final grades due	Monday, July 1, 10:00 a.m.

## **3RD 5-WEEK SESSION 2006**

*Classes begin	Monday, July 10
Deadline for adding classes (Census date)	Friday, July 14
Deadline for dropping individual classes without a recorded grade (Census date)	Friday, July 14
**Last day of classes	Friday, August 11
Final grades due	Monday, August 14, 10:00 a.m.

\* This date is also the deadline for submitting petitions for in-state residency and the date for withdrawing without tuition and fee charges

\*\* This date is also the deadline for withdrawing from the term (see the Pro-rata schedule in the Tuition & Fee brochure or [www.fortlewis.edu](http://www.fortlewis.edu))



# OTHER RESOURCES

The purpose of the Fort Lewis College Catalog of Courses is to guide students in degree planning. The Fort Lewis College website and numerous departmentally 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 Records Office. The document is also available electronically via the Records Office site at: [www.fortlewis.edu/academic/records\\_office/](http://www.fortlewis.edu/academic/records_office/)

### Admission

All the information prospective students need on the admission process can be found at the Office of Admission website: [www.fortlewis.edu/prospective\\_students/admission/](http://www.fortlewis.edu/prospective_students/admission/)

### Assessment

Details on the college-wide and departmental assessment efforts can be found at the Office of Assessment website: [www.fortlewis.edu/faculty\\_staff/assessment/](http://www.fortlewis.edu/faculty_staff/assessment/)

### Campus Life

Information on student clubs and organizations can be accessed through the College Union homepage: [www.fortlewis.edu/current\\_students/student\\_clubs\\_orgs/](http://www.fortlewis.edu/current_students/student_clubs_orgs/)

### Community & Regional Services

Information on the Center for Academic Readiness, Child Development Center, Community Concert Hall, Office of Community Services, Office of Economic Analysis and Business Research, Education Outreach, Events Planning Office, Extended Studies, Fort Lewis College Foundation, Library, Office of Local Affairs, Professional Associates, San Juan Forum, Small Business Development Center, Center of Southwest Studies, and Center for Tourism Research can be found by searching the Fort Lewis College website: [www.fortlewis.edu](http://www.fortlewis.edu).

### Financial Aid

Information on 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/](http://www.fortlewis.edu/current_students/financial_aid/)

### Student Conduct Code

The Student Conduct Code is published on the Fort Lewis College website. Go to [www.fortlewis.edu](http://www.fortlewis.edu). Select "Current Students." Then select "Student Services and Policies." Then select "Student Conduct Code."

### Student Services

Information about the Academic Advising Center, bookstore, Career Services, Computing Services, Counseling Center, Disability Services, Food Services, Health Center, Housing, learning support and success services, Police and Parking Services, Post Office, and Recreational Services can be found on the Fort Lewis College homepage: [www.fortlewis.edu](http://www.fortlewis.edu).

### Tuition, Fees, and Expenses

Information on tuition, fees, expenses and payment policies can be found on the Office of Accounting website: [www.fortlewis.edu/administrative\\_services/accounting\\_office/](http://www.fortlewis.edu/administrative_services/accounting_office/)

# GENERAL INFORMATION

## MISSION

The following mission statement has been adopted for Fort Lewis College:

The mission of Fort Lewis College is to open minds and kindle thought and action by instilling in students knowledge, a desire to acquire knowledge, the tools for doing so, and an understanding of how knowledge can be put to use for a common good. The experiences students have here should help them learn to live wisely and should make a significant difference in their futures by enabling them to pursue their own educational goals throughout their lives. They should be able to demonstrate thoughtful scholarship in pursuing and weighing knowledge. They should be able to communicate and cooperate with others. The College should also play an active role in the community and the region as a multifaceted learning resource.

Fort Lewis College has chosen to pursue its mission via its historic role as an undergraduate, public, four-year liberal arts college. Because of the liberal arts focus, we require common general education courses, which include the fine arts, humanities, social sciences, mathematics, and the natural sciences in addition to more specialized junior and senior courses offered through the various majors. Our curriculum is designed both to ensure that students understand the values and assumptions implicit in their major fields of study and to prepare them for a rapidly changing world.

The College's first obligation is to create a personalized learning environment in which faculty and staff are accessible to all students. Therefore, excellence in classroom teaching is our first priority. We are committed to hiring experienced faculty and professional staff dedicated to teaching and to working directly with students. The College also supports and encourages research, scholarly inquiry, and creative performance by its faculty in order to enhance their work with students and the students' own work. We will continue to acquire the resources necessary to fulfill our primary mission.

It is essential to Fort Lewis College's mission that we contribute to the cultural diversity and economic development of the Four Corners region. To play an active role in the community, state, and region, we must ensure that our programs fulfill the needs of our student population and the residents of our area. Our ethnic and regional heritage must be reflected in the make-up of our student body, in our special programs, and in our curriculum. Because of terms established in the original charter of the College, we have an honored tradition of providing tuition-free education for American Indian students. The College will continue to enhance educational opportunities for other minority groups, especially those originating in the Southwest. While a large percentage of our students should continue to come from Colorado, the College will encourage enrollment of students from other regions and from abroad in order to provide a diversified student body.

## 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 4,500 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 (pre-school, K-2), middle childhood (elementary), young adult (secondary), and K-12 (art, music, physical education).

## 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 American Indians 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.

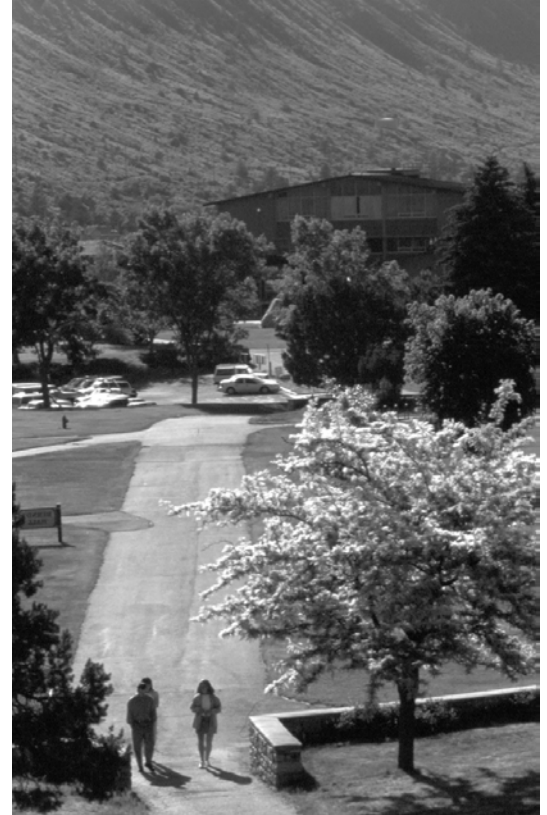
## THE CAMPUS

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, Sage Hall, Art Hall, John F. Reed Library, Theatre Building, Dan 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, Records Office, Native American Center, Advising 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. Summer Sessions are 5 weeks and begin in early May. All three Summer Sessions are the equivalent of one semester.

## 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 recruits its faculty from the best colleges and universities in the country. About 90 percent of the tenure track faculty hold the highest degree attainable in their disciplines. Many of Fort Lewis Colleges 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 North Central Association of Colleges and Schools and is 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 Allied Health Education Programs

**School of Business Administration** – Association to Advance Collegiate Schools of Business International

**Education Department** – Teacher Education Accrediting Council (National); Colorado Department of Education (State)

## ASSESSMENT

To improve instruction and to ensure that it is meeting its educational goals, the College regularly assesses students' progress. The College assesses college-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 to measure the quality and success of its programs. 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 go to

[www.fortlewis.edu/faculty\\_staff/assessment/](http://www.fortlewis.edu/faculty_staff/assessment/).





# BASIC SKILLS REQUIREMENTS

## COLORADO BASIC SKILLS ASSESSMENT POLICY

Degree-seeking students admitted after Fall 2001 must fulfill the requirements of Colorado Basic Skills Assessment Policy. The policy was created by the Colorado Commission on Higher Education to implement legislation passed in 2000 by the Colorado Legislature (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, and Accuplacer. The Colorado Basic Skills Policy is administered by the New Student Advising and Registration Office, which issues Basic Skills Assessment reports to each new student upon registration for courses. 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 are exempt in assessment in reading if they have earned a) a C- or better in college composition; b) a C- or better in a college preparatory reading course; or c) have a documented reading disability. Students are exempt from assessment in writing if they have earned a) a C- or better in college composition; b) a C- or better in a college preparatory writing course; or c) have a documented writing disability. Students are exempt from assessment in mathematics if they have earned a) a C- or better in a college-level mathematics course; b) a C- or better in an intermediate algebra course; or c) have a documented disability in mathematics. Students who are exempt do not need to take further action under the policy.

Students who are assessed as college-level in reading, writing, or mathematics are reported to the Colorado Commission on 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 who are assessed as remedial in reading, writing, or mathematics are reported to the Colorado Commission on Higher Education as in need of remediation in the relevant competency area.

Students who do not meet the following SAT I or ACT minimum scores listed below will be 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.

Subject Area	ACT Score	SAT I Score
Math	19 Minimum	460 Minimum
English	18 Minimum	440 Minimum
Reading	17 Minimum	430 Minimum



# GRADUATION REQUIREMENTS

## GENERAL GRADUATION REQUIREMENTS

It is the responsibility of the student to know and complete all graduation requirements.

Each candidate for graduation must complete a minimum of 120 credits, with at least 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 120 credits required for the degree, 45 credits must be upper-division 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 Records 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

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 credit hours have been earned, must be completed with both majors listed and submitted to the Records 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 Records Office. Courses meeting auxiliary requirements may count in meeting curriculum requirements for both majors. Both majors must be completed prior to graduation.

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, even 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.

## 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 credit hours 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 a Bachelor of Science. No honors are awarded upon receipt of such a degree.





# TRANSFER, EXAM, & MILITARY CREDIT

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

## TRANSFER OF CREDITS

Generally courses are accepted in transfer to Fort Lewis College if they are regular, college level academic courses completed with grades of "C-" or better and taken at a regionally accredited collegiate institution. Courses that will not transfer include those that are not college level, such as remedial and developmental; non-academic such as vocational, career exploration, cooperative education, practicums, etc; or courses with grades of "D+" or lower or 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 PE (Physical Education) courses or if the student demonstrates that the course could not be taken under the normal A-F grading mode and the 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 approvals to be applied toward general education, major, auxiliary or minor requirements.

Courses accepted in transfer become part of the credit hours 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. Credits earned at a two-year college cannot be used to meet Fort Lewis College's credit requirement in upper-division courses.

The maximum number of credits that may transfer to 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

Fort Lewis College will honor the transfer of an Associate of Arts (A.A.) degree and the Associate of Science (A.S.) degree earned at a Colorado public institution that offers A.A. or A.S. degrees. Admissible students who complete the graduation requirements for an A.A. and/or A.S. degree program(s) at a Colorado public college with 60 transferable credits will transfer with junior standing into any arts and science degree program offered by Fort Lewis College, provided that the student earns a "C-" or better in each course. This includes the general education courses that are state guaranteed general education. The transferable credits earned in the associate degree program will apply, at minimum, to 35 credit hours of lower division general education and up to 25 credit hours of additional elective credits towards graduation. Because all liberal arts and science degrees are designed to be completed in 120 credit hours, a transfer student who follows the 60-60 guides for Fort Lewis College can finish a four-year degree at Fort Lewis College by taking 60 additional credits. Programs that can be finished within the 60-60 agreement can be found at [www.fortlewis.edu/academics/records\\_office/60\\_60\\_guides/index\\_2004\\_05.asp](http://www.fortlewis.edu/academics/records_office/60_60_guides/index_2004_05.asp). Fort Lewis College will evaluate such credit for prior learning, Advanced Placement, and correspondence courses following its standard policy.

## Transfer Under Statewide Articulation Agreements

Statewide Articulation Agreements between Colorado Public Community/Junior Colleges and Fort Lewis College exist in the areas of Business and Teacher 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](http://www.state.co.us/cche/academic/transfer/agreements/index.html)

## Transfer of General Education

Colorado's state guaranteed general education 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 is organized into five categories: communication, mathematics, arts, and humanities, social and behavioral sciences, and physical and life sciences. The state general education policy guarantees transfer of 11 state approved general education courses limited to the number of semester credit hours allowed in each general education category (below). Students must earn a C- grade or better in each course. Additional information is available at: [www.state.co.us/cche/academic/transfer/index.html](http://www.state.co.us/cche/academic/transfer/index.html).

Semester Credit Hour	General Education Categories
6	<u>Communication</u> 1 Intro. Writing course (3 semester credits) 1 Intermediate Composition (3 semester credits)
3-5	<u>Mathematics</u> 1 course (3 to 5 semester credits)
9	<u>Arts &amp; Humanities</u> Select 3 courses with no more than 2 courses from any 1 category: Arts Literature & Humanities Ways of Thinking
9	<u>Social and Behavioral Sciences</u> Select 3 courses, 1 of which must be history, with no more than 2 courses from any 1 category History Economic & Political Systems Geography Human Behavior & Social Systems
8	<u>Physical and Life Sciences</u> Select 2 laboratory-based courses

## Transfer Agreements and Guides with Non-Colorado Colleges

Fort Lewis College also has articulation agreements and transfer guides with San Juan College in New Mexico and Diné College in Arizona. These guides are on the Fort Lewis College web site. Those published agreements and transfer guides govern transfer policies for those two-year colleges.

Any student transferring with an A.A. or A.S. degree will fulfill general education requirements upon the completion of two Thematic Studies 2 courses from two different themes.

## Effective Catalog 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 thirty (30) calendar day period.

1. The appeal must be submitted in writing to the Records 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 fifteen (15) calendar days.

a. The Records Office and appropriate department chair will review the written appeal submitted by the student.

b. The appropriate department chair will have thirty (30) calendar days to review the student's appeal. The Records 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 Records 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 fifteen (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 (5) 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 (5) 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 Colorado Commission on Higher Education. The appeal must be filed within five (5) calendar days of the postmark date of letter notifying the student of the governing board's decision.

Colorado Commission on 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 Commission 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.

## **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, which may assign a faculty member to administer the exam. The chair will assure that the reasons for the course challenge is legitimate, and, if the course is an advanced one, that the student has the necessary prerequisites.

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.

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 also is 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 and may serve as a basis for credit and/or advanced placement. Scores of 3 or higher are considered for college credit. 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	Fort Lewis College Equivalency	
	<i>Course Title</i>	<i>Credits</i>
Art	Art 190 Art	6
Art-2D Design	Art 190 2D Design	6
Art-3D Design	Art 190 3D Design	6
Art-Drawing	Art 190 Art – Drawing	6
Art-History	Art 262R Art History to the Renaissance	4
	Art 263R Art History from the Renaissance	4
Biology	Bio 113 Intro Biology II	4
	Bio 190 Biology	2
Chemistry	Chem 150Nx Fund Chem I	4
	Chem 151Nx Fund Chem II	4
Computer Science A	CSIS 106 Intro Prog in Visual Basic	4
	CSIS 190 Computer Science	2
Computer Science AB	CSIS 110 Intro to Programming (Java)	4
	CSIS 190 Computer Science	2
Economics (Microeconomics)	Econ 262 Microeconomics	2
	Econ 190 Economics	4
Economics (Macroeconomics)	Econ 272 Macroeconomics	2
	Econ 190 Economics	4
English (Score=3) (Lang and Comp)	Engl 191 Language and Composition	3
	Engl 190 Language and Composition	3
English (score=4+) (Lang and Comp)	Comp 150 Reading & Writing College	4
	Engl 190 Language and Composition	2
English (score=3) (Literature/Comp)	Engl 191 Literature and Composition	3
	Engl 190 Literature and Composition	3
English (score=4+) (Literature/Comp)	Comp 150 Reading & Writing College	4
	Engl 190 Literature and Composition	2
Environmental Science	Bio 190 Environmental Science	6
French	ML 147 Elementary French I	4
	ML 148 Elementary French II	4
German	ML 123 Elementary German I	4
	ML 124 Elementary German II	4
Government and Politics (Comp)	PS 190 Government & Politics (Comp)	6
Government and Politics (United States)	PS 110S US National Government	4
	PS 190 Government and Politics	2
History (European)	Hist 160R Survey Western Civ I	3
	Hist 261S Western Civ II	3
History (United States)	Hist 280 Survey US Hist 1600-1877	3
	Hist 281R Survey US Hist 1877-Present	3
History (World)	Hist 190 World History	3
	Hist 261S Western Civ II	3
Human Geography	Geog 190 Human Geography	6
Latin	ML 109 Intro Latin I	4
	ML 110 Intro Latin II	4
Mathematics (Calculus AB) (Score = 3)	Math 121Q Pre-Calculus and	4
	Math 190 Calculus	2
Mathematics (Calculus AB) (Score = 4+)	Math 221Q Calculus I and	4
	Match 190 Calculus	2
Mathematics (Calculus BC) (Score = 3)	Math 221Q Calculus I and	4
	Match 190 Calculus	2
Mathematics (Calculus BC) (Score = 4+)	Math 221Q Calculus I and	4
	Math 222Q Calculus II	4
Music Theory	MU 128 Theory & Musicianship I	5
	MU 190 Music Theory	1
Physics B	Phys 201 Physics-Non Calc I	4
	Phys 202 Physics-Non Calc II	4
Physics C	Phys 217Tx Physics-Sci & Engr I	5
	Phys 218 Physics-Sci & Engr II	5
Psychology	Psy 157 Intro to Psychology	3
	Psy 190 Intro to Psychology	3
Spanish	ML 115 Elementary Spanish I	4
	ML 116 Elementary Spanish II	4
Statistics	Math 201Q 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. Students who have ACT scores in Math, English or Science of 29 or higher, and have grades no lower than B during their junior and senior years in the same subject area will be considered for credit and/or advanced placement. For further information, contact the Office of Admission at 970 247-7184.

ACT Test	Fort Lewis College Equivalency	
	Course Title	Credits
Math	Math 110Q College Algebra	4
English	Engl 190 Special Topics	3
Science	PhSc 105T The Physical Sciences	3

**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. Students who obtain at least a standard score of 50 or the 50th percentile in approved examinations will be considered for credit unless college coursework has been taken that covers much of the area covered by the examinations. Further information may be obtained from C.L.E.P., Box 1821, Princeton, NJ 08540.

CLEP Test	FLC Equivalent	Course Title	Credits
Calculus	Math 221Q	Calculus I	4
College Algebra	Math 110Q	College Algebra	4
College Algebra-Trigonometry	Math 121Q	Pre-Calculus	4
College Math	Math 105Q	College Mathematics	3
Trigonometry	Math 191Q	Special Topics-Trigonometry	4
U.S. History, Pre-Civil War	Hist 280	Survey of US History, 1600-1877	3
U.S. History, Post-Civil War	Hist 281R	Survey of US History, 1877-Present	3
Western Civilization I	Hist 160R	Survey of Western Civilization I	3
Western Civilization II	Hist 261S	Western Civilization II:1350 to Present	3
American Literature	Engl 240R	Survey of American Literature	4
British Literature	Engl 230R	Survey of British Literature	4
French Level I	ML 147	Elementary French I	4
	ML 148	Elementary French II	4
French Level II	ML 247R	Intermediate French I	4
	ML 248	Intermediate French II	4
Spanish Level I	ML 115	Elementary Spanish I	4
	ML 116	Elementary Spanish II	4
Spanish Level II	ML 215	Intermediate Spanish I	4
	ML 216R	Intermediate Spanish II	4
German Level I	ML 123	Elementary German I	4
	ML 124	Elementary German II	4
German Level II	ML 223	Intermediate German I	3
	ML 224R	Intermediate German II	3
American Government	PS 110S	U.S. National Government	4
English Composition with Essay	Comp 125	Reading in College	3
	Comp 126	Writing in College	3
Introductory Psychology	Psyc 157	Introduction to Psychology	3
Intro to Educational Psychology	Psyc 218	Psych Foundation of Education	2
Human Growth and Development	Psyc 254	Life Span Human Development	4
Biology	Bio 112N	Intro Organismic & Evolutionary Biology	4
	Bio 190	Biology	2
Chemistry	Chem 150NX	Fund of Chem I Atoms & Molecules	4
Introductory Business Law	BA 260S	Legal Environment of Business	4
Principles of Management	BA 301	Management & Organizational Behavior	4
Principles of Microeconomics	Econ 262	Principles of Econ - Micro	2
Principles of Macroeconomics	Econ 272	Principles of Econ - Macro	2
Introductory Sociology	Soc 191S	Special Topics-Intro Sociology	3
Humanities	GS 191R	Humanities	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. Fort Lewis College awards semester credit for most standard or higher level examinations on which a score of 4 or higher is earned. 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. Credits transfer as follows:

IB Subject Exam Title	Level of Evaluation	Examination Score	FLC Course Equivalent	Semester Hours
Anthropology	Higher Standard	4 4	Anth 210R (4), Anth 190 (2) No credit	6
Art	Higher Standard	4 4	Art 190 (6) Art 101 (3)	6 3
Biology	Higher Standard	4 4	Bio 112N (4), Bio 113 (4) Bio 191 (3)	8 3
Chemistry	Higher Higher Standard	5 4 4	Chem 150Nx (4), Chem 151Tx (4) Chem 150Nx (4), Chem 190 (2) Chem 191 (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 (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 247R (3), ML 248 (3), ML 390 (3) ML 247R (3), ML 248 (3) ML 147 (4), ML 148 (4)	9 6 8
Geography	Higher Standard	4 4	Geog 271R (4), Geog 190 (2) Geog 271R (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 160R (3), Hist 261S (3) Hist 190 (3)	6 3
History of the Americas	Higher Standard	4 4	Hist 281R (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 221Q (4), Math 222Q (4) Math 221Q (4), Math 190 (2) Math 110Q (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 141S (4), Phil 190 (2) Phil 191 (3)	6 3
Physics	Higher Standard	4 4	Phys 217Tx (5), Phys 218 (5) PhSc 105T (3)	10 3
Psychology	Higher Standard	4 4	Psyc 157 (3), Psyc 190 (3) Psyc 157 (3)	6 3
Russian (B)	Higher Standard	4 5	ML 191 (6) ML 191 (6)	6 6
Spanish (A-1) Spanish B	Higher Standard Higher Higher Standard	4 4 7,6 5,4 4	ML 319 (4), ML 390 (2) ML 319 (4) ML 215 (4), ML 216R (4), ML 319 (4) ML 215 (4), ML 216R (4) ML 115 (4), ML 116 (4)	6 4 12 8 8
Theatre	Higher Standard	4 4	Thea 190 (6) Thea 190 (3)	6 3

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.

### **Military Service Credit**

Veterans often are 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 Records Office at the College. The student must make a written request for an evaluation of credits for military service.





# COLLEGE AND CAREER PLANNING

## DEGREE PLANNING WORKSHEET

To complete any Bachelor's Degree at Fort Lewis College you must:

- Complete at least 120 credits
- Complete a minimum of 45 Upper division credits
- Have a minimum 2.0 cumulative GPA
- Have a minimum 2.0 major GPA

TOTAL CREDITS REQUIRED	CURRENT CUMULATIVE CREDIT TOTAL	TOTAL CREDITS STILL NEEDED
120		

TOTAL UPPER DIVISION CREDITS REQUIRED	CURRENT CUMULATIVE UPPER DIVISION CREDIT TOTAL	TOTAL UPPER DIVISION CREDITS STILL NEEDED
45		

### Part 1 – General Education Requirements – 35 to 46 credits

Courses used to meet the Reading and Writing, Quantitative Reasoning and Thematic Studies requirements must be at 3 semester credits. Students must complete at least one Thematic Studies 1 T or N course with an associated lab (x). Any one course may only meet one General Education requirement.

Gen Ed Course Requirement	Course Completed	Credits*
Reading and Writing- Comp 125 & 126 or Comp 150 or Comp 250		
Information Literacy - Lib 150		
Quantitative Reasoning - Any approved Q course		
ES 100 Fitness and Wellness		
PE Activity - Skill		
PE Activity - Fitness		
<b>THEMATIC STUDIES 1</b> One lower division course in each theme. These courses have department prefixes followed by an R, S, T, or N designation. <b>Either N or T must have a lab (Nx or Tx).</b>		
Culture, Identity & Expression (R)		
Systems & Institutions (S)		
Technology (T/TX)		
Natural Environment (N/Nx)		
<b><u>THEMATIC STUDIES 2</u></b> One upper division course in each theme. These courses have a TS2 prefix. Prerequisites for TS2 courses are completion of all four Thematic Studies 1 courses, Lib 150, Comp 126 or 150 or 250, Q, and Junior standing.		
Culture, Identity & Expression (TS2R)		
Systems and Institutions (TS2S)		
Technology (TS2T)		
Natural Environment (TS2N)		
<b>TOTAL GENERAL EDUCATION CREDITS</b>		





## OVERVIEW

One of the most important reasons to do college and career planning is to create options and opportunities for the future. By planning now, you will know the types of skills, knowledge, and experiences that are important for the paths you are considering. You can factor that knowledge into selection of course work and career-related experiences such as internships. Ultimately, this will allow you to be selected for the career position or graduation program that you want after graduation.

Students sometimes avoid thinking about the future because of fear of the unknown and/or pressures from family or friends. Not knowing what you want to do and having concerns about your abilities or who you are gets in the way of making good decisions. If these issues sound familiar to you, beginning the college and career planning process as early as possible is especially critical.

### College Planning

College planning begins with understanding the structure of a baccalaureate degree:

- **General Education.** Required courses in composition, library research, and quantitative reasoning ensure development of academic competencies. Required courses in Thematic Studies invite exploration of different areas of knowledge and ways of understanding the world. Required courses in Physical Well-Being educate students in the benefits and joys of physical activity.
- **Major.** The purpose of the major is to develop specialized knowledge and skills.
- **Auxiliary Requirements.** Auxiliary requirements are requirements for a major that involve courses offered by another department.
- **Electives.** A portion of the degree is left unstructured so that students have an opportunity to customize their degrees. Electives can be used for personal enrichment, internships, the John F. Reed Honors Program, a second major, a minor, or teacher licensure.

### Pivotal Role of the Major in College Planning

The major plays a pivotal role in college planning because it impacts both general education and electives. For example, the “best” quantitative reasoning course to take as part of general education may depend on your major. How many electives you will actually have in your degree plan depends on the number of credits in your major and the number of auxiliary requirements. For this reason, identifying a major (if you’re undeclared) or confirming a major (if you already have an idea about one or more potential majors) is your top priority in college planning.

### Advice for Undeclared Students

If you are not certain about your goals either for college or career, you should begin exploring options:

- Take GS 105 – Exploring the Liberal Arts. This 2-credit elective is our best resource for undeclared students.
- Visit with faculty in fields of potential interest. An easy way to get started with this is to visit a departmental open house. These are often scheduled as part of New Student Orientation or during advising weeks in Fall and Winter.
- Take “first courses” in majors of potential interest. Introductory courses, which sometimes can also count for general education purposes, are a way to get a sense of the problems that are at the center of a discipline and the ways of thinking valued in that discipline. If you complete an introductory course wanting to know more, this could indicate a direction for your major. You can identify “first courses” by consulting the list of required courses for a specific major in this catalog.
- Visit the Career Services Office. The Career Services Office sponsors many activities and events that can be helpful to students who are in the process of identifying a major.

### Advice for Students With a Potential Major in Mind

- Take the “first course” in majors of potential interest to begin the narrowing down or confirmation process.
- Take the mathematics courses recommended or required for your major, and take advantage of any opportunities to fulfill major-field or auxiliary requirements in Thematic Studies I. Tailoring your general education choices to your major will allow you a larger number of electives.

- Visit with faculty in fields of potential interest. An easy way to get started with this is to visit a departmental open house. These are often scheduled as part of New Student Orientation or during advising weeks in Fall and Winter.

## **Career Planning**

Career planning is about planning for your future: life and vocation. Taking the time to plan will ensure that you will have a more focused college experience with an exciting future.

Career planning is an on-going, life-long process that allows you to assess yourself in relationship to career opportunities. In today's world, the first professional position you hold is not going to be the last. This is why knowing yourself – skills, aptitudes, values and interests – and learning about what is “out there” in the real world is critical to your continued career development. When you bring these two areas of information together – you and the world of work – you can create a clearer idea about what you want to do.

New opportunities and jobs are being developed all of the time. If you are not aware of these trends and changes, you may miss preparing yourself to compete for a position that would be exciting to you. The vocation you choose impacts the quality of your life. The values you hold are especially important. Some occupations do not allow you to express certain values. Therefore, your planning activities will help you know this in advance and be able to adjust while adjusting is still easy to do.

Career planning and college planning go hand-in-hand. You might need specific coursework to pursue some careers or post-graduate opportunities. A good academic plan should include work experiences related to your career interests. Combining a major with an unusual minor may open doors. Taking electives in special areas, such as computer skills or modern languages, can increase your ability to compete for the jobs you want.

### **Tools and Activities for Career Planning**

There are many programs and activities at Fort Lewis College, especially at the Career Services Office, which can help you with your career planning:

- Appointments with a career counselor in the Career Services Office.
- Vocational assessments, available at the Career Services Office, may bring some clarification to your decision-making process.
- Career Days are open to all students at all levels. They allow you to explore options and meet people from various fields in a fun environment.
- Career-related experiences allow you to explore, test, and learn more about a career area. You may gain academic credit (internships) or the experiences may be volunteer ones that give you the chance to learn more about a particular career area. There are broad benefits to career-related experiences. You can use an experience to decide, “No, this is not what I want to do,” or “Yes, this is it!” You can gain skills that will allow you to compete more effectively for positions and for graduate school. You can meet people in the field who may become references for you. In some cases, you may even be offered a job with the employer where you are working. More and more, graduate programs are requiring students to have experience in the field before being accepted into a program.
- Clubs and organizations can help you develop classroom and work skills and enhance networking. Besides meeting people with similar interests, you may become a leader in the organization. Employers and graduate schools are always interested in candidates with good leadership skills. There are a number of registered student organizations that bring together students with a common career interest. The Leadership Center can help you connect with these groups.

If you are not certain about your goals, begin exploring options early. Remember that this isn't a process that is meant to be distracting or enormously time-consuming. Your first goals may be broad and general, but as you continue to explore and plan, your goals will become more refined and your college experience even more exciting.



## GRADUATE AND PROFESSIONAL SCHOOL PLANNING

Many Fort Lewis College students choose to attend graduate or professional school after graduation. The National Student Clearinghouse reports that 21% of students who graduated from Fort Lewis College, between July 1, 2000, to June 30, 2002, were enrolled in graduate or professional schools. If graduate or professional school is your goal, the time to begin planning is now.

It is important to let your faculty advisor know about your goals. They can guide you on coursework, the application process, programs that will be a good fit for your interests, and how to prepare for and schedule required entrance exams.

Fort Lewis College offers a wide range of graduate exams, including the Graduate Record Exam (GRE) Subject Tests, Medical College Admission Test (MCAT), and the Law School Admission Test (LSAT). Bulletins on these exams can be found outside the Testing Center.

## 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 to implement this legislation. Direct any questions, requests, issues or concerns with Fort Lewis College's compliance with this law to the Dean of the Division of General and Exploratory Studies.

- (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 sixty credit hours or their baccalaureate programs in no more than one hundred and twenty credit hours 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 General and Exploratory Studies 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 institutions satisfy the students' graduation 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.

## FORT LEWIS COLLEGE STATEMENT ON ADVISING

One of the most important services Fort Lewis College provides to its students is advising. Advising is defined as the process of assisting students in the development of meaningful educational plans that are compatible with their life goals. While the responsibility for making decisions about educational plans and life goals rests with the individual student, an advisor assists by helping to identify and assess the merits and consequences of different alternatives. To achieve the goal of quality advising, the college is committed to:

- Providing learning opportunities that will enable students to acquire the knowledge and skills to become increasingly self-sufficient in college and career planning.



- Identifying the advising services that are important to Fort Lewis College students and delivering them effectively.
- Promoting advising as a continuous process informed by regular contact between advisors and advisees.
- Providing faculty and staff with the resources, training, and time that will allow them to excel in their advising roles.

## ADVISING SERVICES

Fort Lewis College has the following advising system in place to assist students in achieving their goals for college, career or graduate and professional school:

- **New Student Advising and Registration Office.** This office matriculates all new freshmen and transfer students. After advising and registering students for their first term at Fort Lewis College, the New Student Advising and Registration Office assigns the student to a faculty advisor. This office also issues Colorado Basic Skills Assessment reports to all new freshman and transfer students and General Education Status Reports to all students transferring in state guaranteed general education credit.
- **Faculty advisors.** Almost all teaching faculty are assigned an average of about 25 students to advise. Students are assigned based on their declared interests at the time of matriculation. Faculty in all majors assist with the advising of undeclared students. Students are free to change advisors by filing a "Change of Advisor" form at the Records Office. The new advisor must consent to the change by signing the form. All students are required to see their faculty advisor at least once a semester. Registration for the next semester is blocked by an "Alt Pin" code that is only issued to the faculty advisor of record. Students are encouraged, however, to consult with their advisors more than once a semester about academic and career matters.
- **Academic Advising Center.** The Academic Advising Center provides supplemental advising for all students in all majors.
- **Records Office.** The Records Office evaluates transfer, test, and military credit and provides petitioned seniors with an official graduation checklist that tracks degree progress.
- **Career Services Office.** The Career Services Office offers career counseling, vocational assessments, career resources, and assistance with career-related experiences.
- **Finish in Four Program.** Qualified freshmen are invited to participate in Fort Lewis College's "Finish in Four" four-year graduation agreement program. Through this program, students are provided with a graduation plan and are ensured timely access to courses required for graduation. For more information, contact the Dean of the Division of General and Exploratory Studies.
- **Legal Career Advising.** Pre-law advising is important for students who are interested in entering law school after completing a Bachelor's degree. The following pre-law advisors are available to provide academic planning and career counseling: Kenyon Bunch, Political Science Department; Haeryon Kim, Judicial Affairs; Suzanne Wilhelm, School of Business Administration. Unless one of the pre-law advisors is your major advisor as well, you still need an advisor in your major department. No specific major fields are required or preferred by law schools. Law schools are looking for excellence in reading, writing, and analytical and critical thinking.
- **Health Career Advising.** A variety of careers in human or animal medicine, health, and disease await well-prepared Fort Lewis College students. Today's professional schools emphasize the importance of a liberal arts education and do not recruit students from one specific major or discipline. The most popular majors for pre-med students are Biology and Chemistry, but pre-med students have majored in a variety of disciplines including Exercise Science, Psychology, History, Philosophy, English, Art, and Anthropology. While each professional school will list course prerequisites for admission, increasing emphasis is placed on communication and analytical skills, cumulative grade point average, letters of recommendation, extracurricular activities, and an interview. Students planning health careers should become familiar with the specific admission requirements of the professional schools in which they have an interest. The Departments of Biology and Chemistry offer specialized advisement and graduate application assistance through the Pre-Health Professions Advising Committee. Contact the department chairs of Biology or Chemistry for more information.



## DEGREE PLANNING DOCUMENTS

Fort Lewis College provides numerous documents to students to assist with degree planning:

- **Catalog of courses.** You are entering under the requirements of the 2005-06 catalog. The catalog states the academic contract that exists between you and the college regarding requirements that must be completed, including number of credits, number of upper-division credits, GPA, and coursework. It is the student's responsibility to read the catalog and know the requirements for graduation. If you need help interpreting the catalog, you can turn to your faculty advisor, an advisor in the Academic Advising Center, or a staff member in the Records Office.
- **Official reports.** The college issues the following official reports to assist students in degree planning:
  - Evaluation of transfer credit. Prepared by the Records Office.
  - Evaluation of test credit. Prepared by the Records Office.
  - Evaluation of military credit. Prepared by the Records Office.
  - Colorado Basic Skills Report. Prepared by the New Student Advising and Registration Office. This report conveys what action a student must take to be in compliance with Colorado Basic Skills Assessment Policy based on CRS 23-1-113.
  - General Education Status Report. Prepared by the New Student Advising and Registration Office. This report is prepared for students who transfer in state guaranteed general education credit.
  - Graduation Checklist. Prepared by Records Office. This checklist, prepared for "petitioned seniors", summarizes graduation requirements that still need to be completed.
- **Graduation plans.** Students are strongly encouraged to work with their faculty advisor or an advisor in the Academic Advising Center to develop a written graduation plan on a spreadsheet that plots out semester-by-semester a plan for the completion of graduation requirements.
- 

## GRADUATION PLANNING

### Petitioning to Graduate

Once a degree-seeking student reaches 80 earned credit hours, the Records Office will automatically send the student a Petition for Candidacy for a Degree form. The petition will request verification of academic information such as degree type, major, minor, major option, or concentrations, and anticipated date of graduation. Students have twenty-one days to submit the petition to the Records Office. Upon receipt of the Petition from the student, an initial graduation checklist will be sent to the student prior to academic advising and early registration. NOTE: This form must be submitted to the Records Office to initiate a graduation checklist. At the same time, the student's account will be automatically assessed the graduation fee. The student will receive a second graduation checklist during the term prior to their term of anticipated graduation.

Students with a Student Constructed Major must have their approved contract filed with the Records Office at the time they Petition to Graduate.

### Commencement and Graduation

There are two dates for commencement ceremonies each year: one ceremony in December, following the fall term and two ceremonies in April or early May, following the winter term. A student may participate in only one commencement ceremony. Students completing graduation requirements at the conclusion of the Winter Term, or after any of the three summer sessions, will be assigned to the April/May commencement ceremony. Students completing degree requirements at the conclusion of the Fall term will be assigned to the December commencement ceremony.

## TRANSCRIPTS

Fort Lewis College does not charge a fee for regular transcript requests. Transcript requests must be made via WebOpus with an identification PIN, or in writing with a student's signature. Requests should be sent to the Records Office, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301-3999, or may be faxed to the Records Office, 970-247-7598.





# GENERAL EDUCATION

Susan Moss, Coordinator of General Education

Gary Gianniny, Chair of the General Education Council

## LIBERAL ARTS EDUCATION

Fort Lewis College's commitment to the liberal arts is embodied in its innovative general education program and in its majors in the arts, sciences, humanities, and social sciences. The traditional liberal arts disciplines - humanities, arts, mathematics, history, social sciences, and physical and life sciences - are relevant for all students, regardless of major or vocational aspiration. However, liberal arts education is not confined to any particular field of study or discipline.

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 in a free and democratic society. These include breadth of knowledge, the ability to analyze and weigh evidence, open-mindedness and tolerance of difference, critical thinking, quantitative reasoning, and communication, in addition to a commitment to continued learning.

Academic competencies, exploration, and breadth of knowledge are important aspects of a liberal arts education. Exploration of different areas of knowledge and ways of understanding the world is a valuable educational experience that is especially important during the first years of college in order to learn about one's interests and strengths. At Fort Lewis, students are exposed to a breadth of knowledge by exploring a variety of themes and disciplines in General Education. At the same time, competencies in communication, critical thinking, and quantitative reasoning are developed in required General Education courses. Students experience integrated learning that promotes continued learning and allows them to think flexibly and critically in work and life.

This focus on liberal arts education complements career and professional education provided by specific majors. Employers want college graduates who are ready to contribute positively to a rapidly changing world and work environment. FLC graduates can communicate effectively and think critically; they understand how the world works and are prepared for the challenges of work and life.

### General Education

General Education is where the liberal arts mission of the College is put into practice. Since general education is at the core of the College's liberal arts mission, its requirements are spread across all four years.

The main curricular components of the General Education portion of the bachelor's degree are:

- Reading and Writing
- Academic Library Research
- Quantitative Reasoning
- Physical Well-Being
- Thematic Studies

### **Reading and Writing (Comp 126 or 150 or 250 and W. writing in the major)**

Today the ability to write effectively and to read critically underlies professional projects, civic actions, and academic endeavors. Analyzing who 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 are important. General Education reading and writing courses provide the foundational work necessary for students to begin to think, read, and write in the world of ideas and to join important conversations about real world issues.

Students satisfy the initial academic reading and writing requirement by taking either the two-semester Comp 125 (Reading in College) and Comp 126 (Writing in College) courses or the one-semester courses, Comp 150 (Reading and Writing in College) or Comp 250 (Academic Inquiry and Writing).

### **Academic Library Research (Lib 150)**

In this course, students develop their abilities to conduct effective research, critically evaluate a wide variety of information sources, and choose appropriate sources to use as student scholars.

### **Quantitative Reasoning (Q courses)**

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.

Students satisfy the Q requirement in one of two ways:

- By taking an approved traditional math or statistics course. This option is intended for students whose major includes quantitative reasoning.
- By taking a course that specifically addresses quantitative reasoning skills and provides a general quantitative experience.

### **Physical Well-Being (ES 100 and PE Activities)**

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.

Three courses are required: ES 100, 1 PE skills course and 1 PE fitness course.

### **Thematic Studies**

Thematic Studies is designed to provide the breadth of knowledge needed for understanding important issues in life and work in a complex global world. The Thematic Studies requirements contribute to a liberal arts education by focusing on interdisciplinary learning centered around four theme-based knowledge areas. This approach enables students to integrate information across academic disciplines.

Students are required to take two courses in each theme, one at the lower division and another at the upper division.

Note: One lower division course must include a lab (Tx or Nx). The themes are:

- Culture, Identity and Expression (R) – Students develop an understanding and appreciation of diverse legacies of culture and expression.
- Systems (S) – Students learn how individuals and institutions function within broader political, economic and socio-cultural systems.
- Technology (T/Tx) – Students acquire the critical capacities to make informed use of the technologies that permeate our lives and society.
- Natural Environment (N/Nx) – Students gain an understanding of the natural environment and of the responsibility to sustain a balance between natural resources and human needs.





## GENERAL EDUCATION REQUIREMENTS

REQUIREMENT	Credits*
<b>Reading and Writing</b> - Comp 125 & 126 or Comp 150 or Comp 250	4-6
<b>Academic Library Research</b> – Lib 150	1
<b>Quantitative Reasoning</b> - Any approved Q course	3-4
<b>Physical Well-Being</b> - ES 100 and 2 PE activities (1 skill, 1 fitness)	3
<b>THEMATIC STUDIES 1</b> One course in each theme, lower division. These courses have department prefixes followed by an R, S, T, or N designation. Either N or T must have a lab (Nx or Tx).	
Culture, Identity & Expression (R)	3-4
Systems & Institutions (S)	3-4
Technology (T/TX)	3-4
Natural Environment (N/Nx)	3-4
<b>THEMATIC STUDIES 2</b> One course in each theme, upper division, specifically designated TS2 classes. These courses have a TS2 prefix. Prerequisites for TS2 courses are completion of all four TS1s, Lib 150, Comp 126 or 150 or 250, Q, and Junior standing.	
Culture, Identity & Expression (TS2R)	3-4
Systems and Institutions (TS2S)	3-4
Technology (TS2T)	3-4
Natural Environment (TS2N)	3-4
<b>Total General Education Credits*</b>	<b>35-46</b>

\*Some of the courses that meet General Education requirements may also count for major requirements. See specific majors for more information.

### State Guarantee General Education

As a public Colorado institution, Fort Lewis College participates in the state guarantee transfer general education (see page 13) 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 state guaranteed transfer general education courses at Fort Lewis College. Additional gtPathways information is available at:

[www.state.co.us/cche/academic/transfer/index.html](http://www.state.co.us/cche/academic/transfer/index.html).

**Fort Lewis College Thematic Studies 1 Courses**

Ag 101Tx: Intro. Animal Science	Tx
Ag 203T: Intro. to Medicinal Crops	T
Anth 120S: Anthropology of the Southwest	S
<b>Anth 151S: Intro. to Anthropology (GT-SS3; 03)</b>	S
Anth 171T: World Archaeology	T
Anth 201T: Intro. to Archaeology	T
Anth 208N: Trad. Eco. Knowledge/Cult. Survival	N
Anth 210R: Intro. to SocioCultural Anthropology	R
Anth 213S: Peasant Societies	S
Anth 215R: Magic & Religion	R
Anth 217R: Cultural Images Women/Men	R
Anth 236Tx: Intro. Physical & Bio. Anthropology	Tx
Anth 243S: Food: Systems of Prod. Dist.	S
<b>Art 162R: Art in the Humanities (GT-AH1; 03)</b>	R
Art 262R: Art History I: Ancient World to M.A.	R
Art 263R: Art History II: Ren. to Mod. World	R
BA 260S: Legal Environment of Business*	S
BA 271R: Principles of International Business	R
Bio 105Tx: Issues in Genetic Engineering	Tx
<b>Bio 110Tx: Modern Biological Issues (GT-SC1; 03)</b> (if taken pre 2002-03 w/o lab: T theme only)	Tx
Bio 112N: Intro. Organismic & Evol Biology	N
Bio 120N: Environmental Conservation (03-04 & prior)	N
Bio 121Tx: Human Anatomy & Physiology (04-05 & prior)	Tx
Bio 125Nx: Conservation Biology	Nx
Bio 132T: Human Sexuality	T
Bio 141N: Global Ecological Issues	N
Bio 202Nx: Plants & Human Affairs*	Nx
Bio 241N: Environmental Policy Analysis (03-04 & prior)	N
Bio 250Nx: Ecology of the SW (Crosslist: SW 250)*	Nx
Chem 123T: Chemistry for Consumers	T
Chem 125N: Environmental Chemistry	N
Chem 150Nx: Fundamentals of Chemistry I	Nx
Chem 151Tx: Fundamentals of Chemistry II	Tx
Econ 170S: Current Economic Issues	S
Econ 266S: Principles of Economics	S
Ed 200R: Intro. to Education in America	R
Ed 210S: Culture of Childhood & Youth	S
Eng 180N: Literature of the Environment	N
Engl 116T: Intro. to Mass Communications	T
Engl 128R: Bible as Literature	R
Engl 173R: 20th C Asian/African Literature (02-03 & prior)	R
Engl 174R: African-American Literature	R
Engl 175R: Women's Literature	R
Engl 176R: Native American Literature	R
Engl 177R: U.S. Latina/o Literature	R
Engl 221R: Classical Literature	R
Engl 230R: Survey of British Literature	R
<b>Engl 240R: Survey of American Literature (GT-AH2; 03)</b>	R
Engl 265S: Semantics	S
Engl 270R: History of Film	R
Engl 280R: Literature of the SW	R
ES 150R: SocioCultural Fdns. of Human Mvmt.	R
ES 243S: Personal Health	S
Geog 250T: Intro. to Computer Mapping & GIS	T
<b>Geog 271R: World Regional Geography (GT-SS2; 03)</b>	R
<b>Geol 107Nx: Earth Systems Science (GT-SC1; 03)</b>	Nx
<b>Geol 113Tx: Physical Geology (GT-SC1; 04)</b>	Tx
Geol 150N: Geology of the SW	N
Geol 170N: Earth Shock	N
Geol 180N: Intro. to Oceanography	N
<b>GS 101R: Human Heritage I (GT-AH2; 04)</b>	R
GS 102S: Human Heritage II	S
Hist 140R: Survey of African History I	R
Hist 141R: Survey of African History II	R
<b>Hist 160R: Survey of Western Civilization I (GT-HI1; 03)</b>	R
Hist 170R: Survey of E. Asian Civilization I	R

Hist 171R: Survey of E. Asian Civilization II	R
Hist 181N: U.S. Environmental History (Crosslist: SW 181)	N
Hist 261S: Western Civilization II 1350-present	S
Hist 262S: Tolerance&Persecution in Mid. Ages	S
Hist 263R: Medieval Life in Modern Film/Lit.	R
Hist 270R: Colonial Latin America	R
Hist 271S: Latin America Since Independence	S
<b>Hist 281R: Survey of US Hist, 1877 to present (GT-HI1; 03)</b>	R
ML 118R: Spanish in the SW	R
ML 216R: Intermediate Spanish II	R
ML 224R: Intermediate German II	R
ML 247R: Intermediate French I	R
<b>Mu 101R: The Musical Experience (GT-AH1; 03)</b>	R
Mu 102R: Blues, Jazz, & Rock	R
Mu 120S: Fundamentals of Music	S
<b>Phil 141S: Intro. to Philosophy (GT-AH3; 03)</b>	S
Phil 244R: Chinese Philos. (Crosslist: RS 244)	R
Phil 251S: Moral Philosophy	S
Phil 252N: Environmental Ethics	N
Phil 261R: Philos. of Religion (Crosslist: RS 261)	R
Phil 274R: Ancient/Medieval Philosophy	R
Phil 297RS: Tibetan Buddhism (Crosslist: PS 297 & RS 297)	RS
PhSc 105T: Physical Sciences (no lab)	T
<b>PhSc 106Tx: Physical Sciences (lab) (GT-SC1; 03)</b>	Tx
<b>PhSc 115Nx: Environmental Physical Science (GT-SC1; 04)</b>	Nx
PhSc 205T: Astronomy for Liberal Arts (no lab)	T
<b>PhSc 206Tx: Astronomy for Liberal Arts (lab) (GT-SC1; 03)</b>	Tx
Phys 217Tx: Physics for Science & Engr I (Prereq: Math 221Q)	Tx
<b>PS 101S: Intro. to Political Science (GT-SS1; 03)</b>	S
PS 110S: US National Government	S
PS 120S: State & Local Government	S
PS 205N: Environmental Politics	N
PS 280S: Intro Comparative Politics	S
Psyc 110S: Human Relations	S
Psyc 260Nx: Environmental Psychology	Nx
Psyc 265S: Global Community Psychology	S
RS 244R: Chinese Philos. (Crosslist: Phil 244)	R
RS 261 R: Philos. of Religion (Crosslist: Phil 261)	R
RS 297RS: Tibetan Buddhism (Crosslist: Phil 297)	RS
Soc 100S: Introduction to Sociology	S
Soc 250R: Soc Issues/Contemporary Nat. Soc.	R
Soc 275S: Families, Marriage, Sex Role Systems	S
Soc 279R: Ethnicity, Gender & Class in SW	R
Soc 280S: Pop Culture & Mass Communication	S
SW 123R: American Indian History	R
SW 131N: Southwest History and Culture	N
SW 135R: The Southwest	R
SW 181N: U.S. Environmental History (Crosslist: Hist 181)	N
SW 250Nx: Ecology of the SW (Crosslist: Bio 250)*	Nx
SW 280S: Native American in Modern World	S
<b>Thea 101R: Intro. to Theatre (GT-AH1; 03)</b>	R
Thea 126R: Intro. to the Dance	R
WS 101S: Intro. to Women's Studies	S

\*These courses have prerequisites  
These courses are **gtPathways** approved  
(state category; approval date)

# GENERAL EDUCATION PROGRAMS

*Course listing for Lib 150 begins on page 150.*

## Academic Library Research (LIB 150)

Coordinator—Tina L. Evans

Librarian and Associate Professors – Tina L. Evans, Jeffrey L. Frisbie, Chandler C. Jackson, Minna D. Sellers, Elayne S. Walstedter

Librarian and Assistant Professor – Donna L. Arment

The Lib 150 program is responsible for instruction of the required freshman course in library research methods.

## Freshman Mathematics Program

*Course listings for basic skills (TRS) mathematics courses begin on page 181.*

*Course listings for college-level mathematics courses begin on page 156.*

Director – Amy K. Getz

Mathematics Department Liaison – Carl F. Lienert

Visiting Instructors – Cameron I. Cooper, Amy K. Getz, Leslie Goldstein, Mary Kay Stewart, Kathryn Wellborn, and Sherril M. Wilson

The Freshman Mathematics Program is responsible for instruction for basic skills and beginning college-level mathematics courses that fulfill the Quantitative Reasoning requirement in general education and for coordination of the Math Center. 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 149.*

Coordinator – Carol L. Smith

Professors – Byron Dare, Kathleen S. Fine-Dare, Gordon P.

Cheesewright, Reyes R. Garcia, Mary Jean Moseley

Associate Professor – John M. Condie

Visiting Instructors – Bridget J. Irish, Susan M. Palko-Schraa

Writing Specialist – Ana N. Hale

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

## Writing Program

*Course listings for Composition courses begin on page 136.*

Director – Bridget J. Irish

Assistant Director – Susan Palko-Schraa

Librarian and Associate Professor – Tina L. Evans

Assistant Professors – Bradley P. Benz, Nancy K. Cardona, Shawn Fullmer

Visiting Instructors – Karin L. Becker, Molly C. Costello, Ann Hartney, Bridget J. Irish, Susan Palko-Schraa

Writing Specialist – Ana W. Hale

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 themselves one of the 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, & MINORS**



# AGRICULTURE

Course listings for Agriculture begin on page 121.

Department Chair - Sherell Kuss Byrd  
Associate Professor - Philip E. Shuler  
Associate Professor - John W. Byrd  
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 four-year 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.

Within Agriculture itself, four program options are available. A Guaranteed Transfer Program with Colorado State University is available for students interested in pursuing a four-year bachelor's degree. Through this program a student can complete a prescribed sequence of coursework at Fort Lewis College during the freshman and sophomore years and, with a minimum grade point average, be qualified for full transfer to Colorado State with junior standing. Major areas of study offered through the transfer program include Agricultural Business, Agronomy and Animal Sciences.

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 those students pursuing an agricultural career on a farm, ranch, or other agriculture-oriented business. Students may decide to concentrate in animal science, agricultural business, or agronomy.

Students also have the option of developing a student-constructed major. 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, which 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.

## REQUIREMENTS FOR AN ASSOCIATE OF ARTS DEGREE IN AGRICULTURAL SCIENCE:

<b>General Education</b>	<b>Credits</b>
Comp 150 Reading and Writing in College	4
Library 150 Information Literacy	1
ES 100 Fitness and Wellness	1
Quantitative Reasoning Q	3-4

Four courses to be selected from  
General Education T, N, S, R (one from each group) 12-16

**Total 21-26**

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Agricultural Science Requirements:

**Ag 101Tx Introductory Animal Science	4
Ag 102 Principles of Crop Production	4
Ag 150 Farm Records and Accounts	3
Approved math course (**Math 105Q or **Math 110Q)	3-4

**Subtotal Specific Requirements 14-15**

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

**Ag 180N Sustainable Agriculture	3
Ag 202 Integrated Pest Management/Weed Control	4
**Ag 203T 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	1-6
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
Ag 499 Independent Study	1-6
TS2T 402 Agricultural Issues in Society	3

**Subtotal Ag Science Electives minimum 15**

**TOTAL REQUIRED FOR GRADUATION 50-56**

**Free Electives Subtotal 4-10**

### Suggested Electives:

\*\*Geog 250T 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 acceptable Ag 370 Internship in Agriculture experience.

**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.*

## PROGRAM OF STUDY FOR GUARANTEED TRANSFER PROGRAM:

Students participating in the guaranteed transfer program will select courses in consultation with their academic advisor. The specific courses required will depend on which concentration is selected.

## AGRICULTURE MINOR

Course listings for the Agriculture Minor begin on page 121.

### REQUIREMENTS FOR A MINOR IN AGRICULTURE:

#### One of the following:

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

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

Ag 150	Farm Records and Accounts	3
Ag 202	Integrated Pest Management/Weed Control	4
**Ag 203T	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 minimum 20<sup>1</sup>**

<sup>1</sup>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 :

#### Specific Departmental Requirements:

#### One of the following:

**Ag 180N	Sustainable Agriculture	or	3
**Ag 101Tx	Introductory Animal Science	or	4
Ag 102	Principles of Crop Production		4

#### One of the following:

**Bio 250Nx/**SW 250Nx	Ecology of the Southwest	or	4
Bio 220	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 101Tx	Introductory Animal Science	4
Ag 102	Principles of Crop Production	4
**Ag 180N	Sustainable Agriculture	3
Ag 202	Weed Control/Integrated Pest Management	4
Ag 204	Forage Production	4
Ag 235	Soils and Soil Fertility	4
**Anth 243S	Food: Systems of Production	4
Anth 406	Ethnobotany of the Southwest	4
Bio 471	Field Ecology	5
Econ 335	Environmental Economics	4
**Geog 250T	Intro to Computer Mapping and GIS	4
Geol 401	Natural Resources and the Environment	3
TS2N 406	Water in the West	3
**Phil 252N	Environmental Ethics	4
Phil 352	Ecology and Morality	4
PS 205	Environmental Politics	3
SW 330	Cowboys, Cattlemen, and Popular Culture	3
**SW 135R	The Southwest I	3
SW 136	The Southwest II	3

**TOTAL REQUIRED FOR AGROECOLOGY/SUSTAINABLE  
AGRICULTURE MINOR 19-23**



# ANTHROPOLOGY

Course listings for Anthropology begin on page 122.

Department Chair – Philip Duke  
 Professors - Philip G. Duke, Kathleen S. Fine-Dare  
 Associate Professor - David L. Kozak  
 Assistant Professors - 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 look into 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.

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

**General Education** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**Anth 201T Introduction to Archaeology	4
**Anth 210R Introduction to Sociocultural Anthropology	4
**Anth 236Tx Introduction to Physical and Biological Anthropology	4
Anth 300 Proseminar in Anthropology	2
Anth 303W Anthropological Debates	4
Anth 370 Quantitative Methods in Anthropology	4
Anth 395 History of Anthropological Thought	4
Anth 496 Senior Capstone Seminar in Anthropology	2

**Subtotal Specific Departmental Requirements** **27**

### Other Departmental Requirements:

Two additional courses in sociocultural anthropology, one of which must be numbered 300 or above  
 (choose from \*\*Anth 208N, Anth 212, \*\*213S, \*\*215R, \*\*217R, \*\*243S, 350, 351, 355, 356, 357, 388, 406, approved 390 or 391) **6-8**

One non-New World archaeology course  
 (choose from \*\*Anth 208N, Anth 309, 313, 340, 341, or approved 390 or 391) **3-4**

One other archaeology course  
 (choose from \*\*Anth 208N, Anth 220, 259, 309, 310, 313, 330, 340, 341, 348, 402, 403, 430, or approved 390 or 391) **3-4**

One research-based course in anthropology  
 (choose from \*\*Anth 208N, Anth 212, 302, 310, 313, 353, 356, 357, 402, 406, 430, 450,455, or specifically indicated sections—saying, i.e., “this course fulfills the research requirement”—of 390/391 or 499). **2-4**

**NOTE:** One of these research-based courses may count for two purposes, i.e., archaeology and research or sociocultural anthropology and research).

**Subtotal Other Departmental Requirements** **12-20**

**TOTAL DEPARTMENTAL REQUIREMENTS** **39-47**

### Free Electives (variable)

Strongly recommended for students going to graduate school:

At least 4 semesters of a second language

Computing expertise

More than one research-based course

**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 INSOCIOCULTURAL ANTHROPOLOGY

**Anth 210R Introduction to Sociocultural Anthropology	4
**Anth 201T Introduction to Archaeology	4

OR

**Anth 236Tx Introduction to Physical and Biological Anthropology	4
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Two additional courses in sociocultural anthropology, one of which must be numbered 300 or above

Additional anthropology electives **4**

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

**Note:** Anthropology majors may not minor in one of these anthropology-based minors. A minor is not required for graduation, but if you are an anthropology major and wish to minor in something else, it must be outside of the major.

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

## ARCHAEOLOGY MINOR

### REQUIREMENTS FOR A MINOR IN ARCHAEOLOGY:

**Anth 201T Introduction to Archaeology	4
**Anth 210R Introduction to Sociocultural Anthropology OR	4
**Anth 236Tx Introduction to Physical and Biological Anthropology	4
Two additional courses in archaeology, one of which must be numbered 300 or above	6-8
Additional anthropology electives OR	
Anth 259 or 403, archaeological field school	4-8
<b>TOTAL REQUIRED FOR ARCHAEOLOGY MINOR</b>	<b>18-20</b>

**Note:** *Anthropology majors may not minor in one of these anthropology-based minors. A minor is not required for graduation, but if you are an anthropology major and wish to minor in something else, it must be outside of the major.*

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

## ART

*Course listings for Art begin on page 125.*

Department Chair – Michael Freeman  
 Professors - Susan Moss, C. Gerald Wells  
 Associate Professor - Michael Freeman  
 Assistant Professors – Kevin Bell, Chad Colby, Amy K. Wendland  
 Visiting Assistant Professor – Joan Levine Russell

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 on either the elementary or secondary level. The program also seeks to provide art experiences for application to problem solving, the use of leisure time, as well as 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** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

Art 101 Drawing	4
Art 109 Basic Design	4
**Art 262R Art History I: Ancient World to Middle Ages	4
**Art 263R Art History II: Renaissance to Modern World	4
Art 296 Sophomore Seminar	1
Art 385W Contemporary Art: Process, Theory, & Criticism	4
Art 496 Senior Seminar	3
15 credits from the remainder of Art offerings with the exception of Art 162R Art in the Humanities and Art 273 Art for Elementary Teachers	15

**Subtotal Specific Departmental Requirements** **39**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**



## ART – BUSINESS ART OPTION

Coordinator - Susan Moss, 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements

Art 101	Drawing	4
Art 109	Basic Design	4
**Art 262R	Art History I: Ancient World to Middle Ages	4
**Art 263R	Art History II: Renaissance to Modern World	4
Art 271	Art Institutions	4
Art 296	Sophomore Seminar	1
Art 385W	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 162R and Art 273.		
Art 210	is recommended.	11

**Subtotal Specific Departmental Requirements** **39**

#### Auxiliary Requirements from Other Departments<sup>1,2</sup>:

BA 101	Business World	4
BA 240	Business Creativity and Innovation	2
BA 339	Selling	3
BA 340	Marketing	4
BA 348	Public Relations	3
**Econ 266S	Principles of Economics	4

One additional course selected from the following:

ACC 225	Financial Accounting	4
BA 205	Small Business Venturing	3
BA 342	Retailing	3
BA 344	Advertising	3
BA 347	Consumer Behavior	3

**Subtotal Auxiliary Requirements** **23-24**

<sup>1</sup>Students may not take more than 30 credit hours in accounting, business, and economics.

<sup>2</sup>A minimum grade of C- must be earned in 300- and 400-level business courses to count toward graduation for the Business Art Major Option.

**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 CERTIFICATION

Coordinator – Kevin Bell, Assistant Professor of Art

Students seeking K-12 certification must complete, in addition to the specific requirements of the art major, the following courses:

Art 154	Indian Arts and Crafts	3
Art 213	Basic Sculpture	3
Art 224	Basic Painting	3
Art 231	Introduction to Printmaking	3
Art 243	Basic Photography	3
Art 250	Ceramics	3
Art 273	Art for Elementary Teachers	3

Additional recommended course is Art 201.

Education Requirements: Please see K-12 Art certification description under Teacher Education.

## ART MINOR

### REQUIREMENTS FOR A MINOR IN ART:

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

**TOTAL REQUIRED FOR ART MINOR** **22**

## ART HISTORY MINOR

Coordinator - Michael Freeman, Associate Professor of Art

### REQUIREMENTS FOR A MINOR IN ART HISTORY:

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 to 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 take a total of 20-24 credits, with 9-12 credits in upper-division courses. Three courses must be lower-division (two required, one additional) and three courses must be upper division (two to three from regular courses, with one optional from additional listings). Art majors 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 262R and Art 263R. Students who wish to complete a minor in Art History should consult their advisor and the Art Department coordinator.

Lower division courses (required):

\*\*Art 262R Art History I Ancient World to Middle Ages 4  
 \*\*Art 263R Art History II Renaissance to the Modern World 4

Choose one from the following:

Art 265/SW 265 Art History of the Southwest 3  
 \*\*Anth 201T Introduction to Archaeology 4

**Subtotal Lower Division 11-12**

Upper division courses (choose 2 or 3):

Art 363 Modern Painting and Sculpture, 1863-1945 4  
 Art 364 Modern Painting and Sculpture, 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 368 Native N. American Art History 3

Additional upper division (choose one):

Anth 309 Archaeology of Britain 4  
 Anth 330 Archaeology of the Southwest 4  
 Anth 340 Ancient Egypt 4  
 Art 391 Appropriate Art History Topics Course 3-4  
 TS2R 408 Genius, Knowledge, and Representation 4  
 Soc 345 Art and Society 4  
 Phil 361 Philosophy of Art 4

**Subtotal Upper Division 9-12**

**TOTAL REQUIRED FOR ART HISTORY MINOR 20-24**

## BIOLOGY

*Course listings for Biology begin on page 127.*

Department Chair – Sherell Kuss Byrd

Professors - David W. Jamieson, Deborah M. Kendall, J. Page Lindsey, John L. Ninnemann, Joseph C. Ortega, and Thomas P. Sluss

Associate Professors - Sherell Kuss Byrd, John M. Condie, and Catherine P. Ortega

Assistant Professors - Cynthia E. Dott and Julie Korb

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 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 pursue professional careers in health care or graduate school. It is also recommended for those students who are undecided about specific career goals in biology.

The Environmental 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. Many students find that this option fulfills the requirements for postgraduate work leading to careers in health care, from medicine to naturopathy.

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 Department of Teacher Education.

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 biology major is an excellent background.

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 – GENERAL BIOLOGY OPTION

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

**General Education** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Bio 112N 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 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 321 General Physiology	4
Bio 380W Issues in Evolution and Biological Thought	4
Other biology courses, excluding cooperative education and internship	11
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2

**Subtotal Specific Departmental Requirements** **47**

Auxiliary Requirements:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Org Chem I: Organic Compounds	4
Chem 251 Org Chem II: Biological Chemistry	4
**Math 121Q Pre-calculus	4
**Math 201Q Elementary Statistics	4

**Subtotal Auxiliary Requirements** **24**

Recommended Courses (suggested for those students anticipating graduate school):

\*\*Math 221Q, \*\*222Q Calculus I, II  
Phys 201, 202 College Physics I, II  
Chem 311 General Biochemistry I

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

### General Biology Option Suggested Course Sequence

<b>Fall Freshman Year</b>		<b>Winter Freshman Year</b>	
Bio 112 N	4	Bio 113	4
Chem 150Nx	4	Chem 151Tx	4
Math 110Q <sup>1</sup>	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13<sup>2</sup></b>	<b>Total</b>	<b>16</b>
<b>Fall Sophomore Year</b>		<b>Winter Sophomore Year</b>	
Bio 207	4	Bio 206	4
Chem 250	4	Chem 251	4
Math 201Q	4	ES 100	1
TS1	4	TS1	4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>13<sup>2</sup></b>
<b>Fall Junior Year</b>		<b>Winter Junior Year</b>	
Bio 220	4	Bio 321	4
Bio 260	4	Bio 380	4
TS2	4	Upper Division	4
PE Skills	1	Electives	4
Upper Division		TS2	1
Electives	4	PE Fitness	
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>
<b>Fall Senior Year</b>		<b>Winter Senior Year</b>	
Bio 496	2	Bio 497	2
Two Upper Division		Upper Division	4
Biology	8	Biology	4
TS2	4	TS2	4
		Upper Division	
		Elective	
<b>Total</b>	<b>14<sup>2</sup></b>	<b>Total</b>	<b>14<sup>2</sup></b>
<b>Total Upper Division Credits</b>	<b>52</b>	<b>Total Credits</b>	<b>120</b>

<sup>1</sup> 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 retard this schedule, and placement into a higher level than Math 110 will accelerate it.

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

**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.*



# BIOLOGY – ENVIRONMENTAL BIOLOGY OPTION

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

**General Education** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**Bio 112N 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 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 302 Systematic Botany	4
Bio 380W Issues in Evolution and Biological Thought	4
Bio 471 Field Ecology	5
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2

Two courses from the following choices:

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** 49

### Auxiliary Requirements from Other Departments:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Math 121Q Pre-calculus	4
**Math 201Q Elementary Statistics	
OR	
**Math 205Q Biostatistics	4
Chem 250 Organic Chemistry	4
AND	
Chem 365 Analytical Chemistry	4
OR	
Geog 250 Intro to Comp Mapping/GIS	4
AND	
Geog 300 Intermediate GIS	3

**Subtotal Auxiliary Requirements** 23-24

### Recommended Electives (to be selected in consultation with student's advisor):

Bio 305 Entomology
Bio 331 Microbiology
Bio 350 Mycology
Bio 360 Bryophytes and Lichens
Chem 250 Organic Chemistry
Chem 365 Analytical Chemistry
Geog 335 Weather and Climate
Geog 400 Adv GIS: Raster-based Analysis
**Math 221Q Calculus
Phys 201, 202 College Phys I & II

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** 124

**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 Biology Option Suggested Course Sequence

Fall Freshman Year		Winter Freshman Year	
Bio 112 N	4	Bio 113	4
Chem 150Nx	4	Chem 151Tx	4
Math 110Q <sup>1</sup>	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13<sup>2</sup></b>	<b>Total</b>	<b>16</b>

Fall Sophomore Year		Winter Sophomore Year	
Bio 207	4	Bio 260	4
Chem 250	4	Bio 206	4
ES 100	1	Ag 235	4
TS1	4	TS1	4
Math 201Q	4		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>16</b>

Fall Junior Year		Winter Junior Year	
Chem 365	4	Bio 220	4
TS2	4	Bio 380	4
PE Skills	1	TS2	4
Ag 301	4		
<b>Total</b>	<b>13<sup>2</sup></b>	<b>Total</b>	<b>12<sup>2</sup></b>

Fall Senior Year		Winter Senior Year	
Bio 302	4	Bio 497	2
Bio 496	2	Upper Division	
TS2	4	Biology(2)	8
Upper Division	3	PE Fitness	1
Elective		TS2	4
<b>Total</b>	<b>13<sup>2</sup></b>	<b>Total</b>	<b>15<sup>2</sup></b>

Senior Year 2 <sup>nd</sup> Summer Session	
Bio 471	5
<b>Total Upper Division Credits</b>	<b>47</b>
<b>Total Credits</b>	<b>125</b>

<sup>1</sup> 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 retard this schedule, and placement into a higher than Math 110 will accelerate it.

<sup>2</sup> During these semesters students should take additional courses in preparation for a biology career, or graduate school. Your Biology faculty advisor can help you with the selection of these courses

# 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Bio 112N 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 380W Issues in Evolution and Biological Thought	4
Bio 455 Cell & Molecular Biology	4
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2

**Subtotal Specific Departmental Requirements** **44**

Auxiliary Requirements from Other Departments:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Org Chem I: Organic Compounds	4
Chem 251 Org Chem II: Biological Chemistry	4
**Math 121Q Pre-calculus	4
**Math 201Q Elementary Statistics	4
OR	
**Math 205Q Biostatistics	4

**Subtotal Auxiliary Requirements** **24**

**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) and may take the writing class in either chemistry (Chem 300W) or biology (Bio 380W); these students do not have to take both senior seminar sequences or both writing classes.

**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

<b>Fall Freshman Year</b>		<b>Winter Freshman Year</b>	
Bio 112 N	4	Bio 113	4
Chem 150Nx	4	Chem 151Tx	4
Math 110Q <sup>1</sup>	4	Math 121Q	4
Lib 150	1	Comp 150	4
<b>Total</b>	<b>13<sup>2</sup></b>	<b>Total</b>	<b>16</b>

<b>Fall Sophomore Year</b>		<b>Winter Sophomore Year</b>	
Bio 210	4	Bio 270	4
Bio 260	4	Chem 251	4
Chem 250	4	Math 201Q or Math	4
TS1	4	205Q	1
		ES 100	4
		TS1	
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

<b>Fall Junior Year</b>		<b>Winter Junior Year</b>	
Bio 321	4	Bio 380	4
Bio 331	4	TS2	4
TS2	4	PE Fitness	1
PE Skills	1	Elective	4
Upper Division Elective	4		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>13<sup>2</sup></b>

<b>Fall Senior Year</b>		<b>Winter Senior Year</b>	
Bio 496	2	Bio 497	2
Bio 455	4	Bio 342 OR Bio 456 OR	
Upper Division Elective	4	Bio 460	4
TS2	4	TS2	4
		Upper Division Elective	4
<b>Total</b>	<b>14<sup>2</sup></b>	<b>Total</b>	<b>14<sup>2</sup></b>

**Total Upper Division Credits** **52**      **Total Credits** **120**

<sup>1</sup>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 retard this schedule, and placement into a higher than Math 110 will accelerate it.

<sup>2</sup> 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.

# BIOLOGY – BIOLOGY FOR SECONDARY EDUCATION OPTION

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

**General Education** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Bio 112N 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 220 Fundamentals of Ecology	4
Bio 260 Genetics	4
Bio 321 General Physiology	4
Bio 380W Issues in Evolution and Biological Thought	4
Bio 496 Senior Seminar	2
Bio 497 Senior Thesis	2

**Subtotal Specific Departmental Requirements 36**Auxiliary Requirements from Other Departments:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Org Chem I: Organic Compounds	4
**Math 201Q Elementary Statistics	4
OR	
**Math 205Q Biostatistics	4
**Geol 107Nx Earth Systems Science	4
Phys 201 College Physics	4
**ED 200R Intro to Education in America	4
**ED 210S Culture of Childhood and Youth	4
ED 421 Individualized Instruction in a Pluralistic Society	6
ED 424 Language and Math Literacy in Secondary	4
ED 495 Student Teaching	15

**Subtotal Auxiliary 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.*

## BIOLOGY MINOR

### REQUIREMENTS FOR A MINOR IN BIOLOGY:

**Bio 112N 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	4
OR	
Bio 210 Survey of Organismic Diversity (combination of Bio 206 & Bio 207)	4
Two upper division biology courses	6-8
<b>TOTAL REQUIRED FOR BIOLOGY MINOR</b>	<b>18-20</b>

# BUSINESS ADMINISTRATION

*Course listings begin on page 130.*

Dean: Thomas C. Harrington  
 Interim Assistant Dean: Lawrence S. Corman  
 Professors: Lawrence S. Corman, William B. Dodds, Thomas C. Harrington, Kenneth A. Hunt, Iqbal A. Memon  
 Associate Professors: Paul Herz, Frederick H. Mull, Keith F. Sellers,  
 Assistant Professors: Eric Huggins, Doug Lyon, Paul McGurr,  
 Stephanie Owings, Deborah Walker, Simon Walls,  
 Suzanne Wilhelm, Robert Sonora, Luke Miller  
 Visiting Professor: Charles J. Yoos, II  
 Visiting Instructors: Chris Ann Lyon, Terrence Tannehill, Stephen Stovall

## MISSION

The School of Business Administration's faculty works as a team to provide innovative undergraduate business and professional education that challenges traditional pedagogical models and integrates the business and liberal arts disciplines to prepare students for a dynamic, globally competitive business environment.

## VALUES

We provide high quality undergraduate programs with a commitment to developing a liberally educated and professionally competent student. We reach out to attract and serve a culturally diverse community of scholars and students to help them achieve their full potential. We help students gain a maturity of commitment, a sense of social responsibility, and integrity. Our success depends upon maintaining a quality faculty dedicated to teaching and scholarship, a critical mass of committed students, a sense of community focused on our common goals, and adequate funding from public and private sources.

Realizing the need for quality and continuous improvement in all that we do, we strive to maintain a dedicated team of teacher-scholars with concern for our students, for the quality of our faculty, and for the success of our graduates. Additionally, we strive to prepare our students and faculty to meet the needs of organizations and communities operating in a globally competitive environment with diverse economic systems.

## GOALS AND OBJECTIVES

### Teaching

To be leaders in learning, pedagogy, curriculum, and student-oriented service-delivery systems, we position



ourselves as a distinguished value-added undergraduate school by focusing attention on enhancing students' use of information as a competitive tool through life-long learning, knowledge of business content, tools, skills and applications. Achievement of these goals will include developing analytical, computer and decision making skills; leadership/interpersonal, communication, planning and organizing skills; and risk taking, experimentation, and complex-systems-thinking proficiency. Further, we will develop students with responsible/ethical attitudes and actions, and international/multicultural/gender sensitivity.

### **Visibility And Reputation**

To enhance the School's regional and national visibility and reputation for exceptional value-added undergraduate business and professional education and service, we facilitate student employment opportunities, improve graduate school admission opportunities and provide community/regional service. Achievement of these goals and objectives requires continuing research and publication. We will maintain AACSB accreditation.

### **Resource Support**

To provide adequate resources to support the mission, goals and objectives of the School, we seek and maintain sources of both internal and external funding. Achievement of these goals and objectives requires us to be efficient stewards of society's resources.

### **Commitment To Excellence**

To support our goals and objectives, we are committed to developing and maintaining a curriculum that is responsive to society's needs and to increasing learning both inside and outside the classroom. This requires more emphasis on interdisciplinary/industry-focused curricula, creating a more effective physical environment for learning, and focusing our efforts on pedagogical innovations.

The School of Business Administration degree programs are designed to provide a balanced combination of the arts and sciences and professional business education. The more specific objectives of the Bachelor of Arts degree programs offered by the School of Business Administration are:

- To provide, as a base, a general understanding of the principles of modern business and organizational practices.
- To develop balanced thinking and understanding of the economic, political, and social environments in

which modern business and government are conducted.

- To ensure that students are skilled in the use of analytical tools and techniques for decision making.
- To develop the capacity for critical thought, leadership and the ability to work with others.
- To enhance each student's appreciation for international customs and cultural values, and for one's responsibilities in modern society.

The School is characterized by its professional attitude, the diversity of its largely work-experienced faculty and its close student-faculty relationship. In addition to concern for good classroom instruction, the faculty believe that much learning takes place through personal and informal contacts with and among students. The Business Club, Students in Free Enterprise, American Indian Business Leaders, Beta Alpha Psi, the accounting professional fraternity, and Beta Gamma Sigma, the national honorary business fraternity, are active campus groups that promote such interactions.

## **DEGREE PROGRAMS AND OPTIONS**

The curricula offered by the School lead to the Bachelor of Arts degree with a major in Accounting, Economics or Business Administration. 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. Students may select only one option within the Business Administration and Economics majors. Students may elect a double major in the School of Business Administration. They must choose between Accounting, Business Administration and Economics.

## **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 credit hours 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 should take only those business courses that are offered at the freshman or sophomore level at Fort Lewis College. To be exempt from the School of Business Administration sophomore-level writing requirement, students should take a business writing or business communications course at their junior or community college. Business courses taught at junior

or community colleges may not be used to satisfy upper-division credits.

## **PREREQUISITE REQUIREMENT**

Students who enroll in a business course without having satisfactorily completed the required prerequisite(s), or received consent of the instructor, are subject to administrative withdrawal from the course.

## **NON-BUSINESS STUDENTS**

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

## **SEMESTER ABROAD**

The Semester Abroad courses are offered through the Junior Semester Abroad program (JTA) and are taught by a Fort Lewis College Business School faculty member in Europe and Latin America during the winter semester. The schedule provides for two five-week sessions with two courses offered during each session. Spring Break provides the opportunity to travel. The semester ends around the first week in April, allowing about three weeks of independent travel for those who wish to take advantage of that opportunity before the summer semester begins at Fort Lewis College in Durango.

Generally, the course offerings include at least two junior-level core business courses, as well as an international business course and either a third core course or an upper-division business elective for a total of 12-14 credit hours.

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 International Program Coordinator or the JTA faculty.

Students who are interested in this program should contact the Associate Dean of the School before taking any upper-division SOBA courses to design semester schedules so they do not conflict with the JTA program of study.

## **Semesters in France, Spain, Germany, and Norway**

The College has exchange agreements with The Amsterdam School of Business (HES), Ecole Supérieure des Sciences Commercial (ESSCA), Fachhochule Regensburg (FSR), and the Norwegian School of Management (BI), Orebro University (Sweden), University of Northumria (Newcastle, England), University of Southern Denmark, University of Savoie (Chambery, France), University of Basque Country (Spain), and Abo Akademi University (Finland). While the studies are completed at the partner school, credit and grades are awarded by Fort Lewis College, eliminating transferability problems. Fort Lewis College tuition and fees are charged so the only additional cost is that associated with travel to the host institution and whatever additional living expenses that might be incurred.

In addition, the School of Business Administration offers programs in Europe and Latin America.

## **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 CURRICULUM**

The School of Business Administration (SOBA) offers Bachelor of Arts degrees in Accounting, Business Administration and Economics. The Business Administration degree offers options in Agricultural Business, Business Administration, Engineering Management, Finance, Information Management, International Business, Management, Marketing, and Tourism and Resort Management. These majors provide excellent education in business within the broad context of a liberal arts curriculum. The programs offer a concentration of courses in which the students take a cross section of "Common Requirement" courses and 15 to 25 credit hours in a concentration in one of the areas of business. 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.

**A student who majors in one of the three Bachelor of Arts degree programs in the School of Business Administration must complete:**

**General Education 35-46**

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

COMMON SOBA REQUIREMENTS:

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
**Econ 266S	Principles of Economics	4
BA 221	Writing in the Business World	3
**BA 253Q	Business Statistics	4
**BA 260S	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 42**

Quantitative Reasoning Requirement:

Complete one of the following:

BA 346	Managing Customer Value	4
BA 446	Marketing Research	4
BA 485	Investments and Portfolio Management	4
Econ 361	Managerial Economics	4
**Math 210Q	Survey of Calculus	4
**Math 221Q	Calculus I	4
**Math 360Q	Introduction to Operations Research	4

**Subtotal Q Requirement 4**

**NOTE:** BA 446 and BA 485 are not accepted for Quantitative Reasoning Requirement within Accounting major.

**NOTE:** Accounting Majors may complete BA 311 and 312 to replace BA 260

Auxiliary Requirement (outside SOBA):

CSIS 322	Management and Information Systems	4
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**TOTAL COMMON SOBA REQUIREMENTS 50**

Each candidate for graduation must complete a minimum of 120 credits, with at least 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 course of study. 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, or Economics courses to count toward graduation. It is the responsibility of the student to know and complete all graduation requirements.

At least 50% of the business credit hours for a School of Business major must be earned at Fort Lewis College.

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

At least 50 percent of the student's total credits must be taken outside of the School of Business Administration.

Group W Requirement

To complete the college Group W requirement, Accounting, Business Administration, and Economics majors must take one of the Group W courses designated for the major or option. Some majors and options have designated only one course as fulfilling the Group W requirement; other majors and options have designated multiple courses of which students should choose at least one. In all cases the Group W courses satisfy other requirements in the major and need not add additional required hours. BA 221 Writing in the Business World is a prerequisite for all Group W writing courses in the School of Business Administration.

Prerequisite Statement:

Acc 225, Acc 226, Econ 266S, and Comp 150 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. Students may not enroll in 300- or 400-level business courses until Comp 150 and BA 221 have been completed and the student has attained junior standing (60 or more credit hours completed). Any exceptions require the written approval of the School of Business Administration Dean or Assistant Dean.

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

# ACCOUNTING

Course listings for Accounting begin on page 121.

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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

## MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### <sup>1</sup>Other Departmental Requirements:

Acc 323 Intermediate Accounting I	4
Acc 324 Intermediate Accounting II	4
CSIS 425 Accounting Information Systems	3

Plus select at least 4 courses (only one can be a 4 credit hour course) from the following courses, at least one of which must be Acc 430W or Acc 436W\*:

Acc 430W Income Tax Accounting	3
Acc 431 Income Tax Accounting II	3
Acc 436W Auditing – Theory and Practice	4
Acc 470 Governmental/Not-For-Profit Accounting	3
Any 300 or 400 level accounting elective, including any Accounting 390.	3-4

**Total Other Departmental Requirements 23-24**

**TOTAL MAJOR REQUIREMENTS 73-74**

## FREE ELECTIVES (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

\* In order to maintain the 74 hour maximum Total Major Requirements, only one 4 hour accounting elective may be selected.

<sup>1</sup>The 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:** Accounting majors may complete BA 311 and 312 to replace BA 260.

**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 Sequence

<u>First Year</u>			
<u>Term 1</u>		<u>Term 2</u>	
Econ 266 S	4	Comp 150	4
ES 100	1	LIB 150	1
PE Activity	1	TS1 (R)	3-4
PE Skills	1	Math	4
TS1 (N)	4	Elective	3
TS1 (T)	4		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15-16</b>
<u>Second Year</u>			
<u>Term 3</u>		<u>Term 4</u>	
ACC 225	4	ACC 226	4
BA 253	4	BA 301	4
BA 221	3	Elective	3
BA 260	3	Math	4
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>
<u>Third Year</u>			
<u>Term 5</u>		<u>Term 6</u>	
ACC 323	4	ACC 324	4
CSIS 322	4	BA 353	4
BA 380	4	CSIS 425	3
BA 340	4	TS2	3-4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14-15</b>
<u>Fourth Year</u>			
<u>Term 7</u>		<u>Term 8</u>	
ACC 430	3	ACC Elective	3
Or		Elective	3-4
ACC 436	4	BA 496	4
ACC Elective	3-4	TS2	4
TS2	3-4		
TS2	4		
<b>Total</b>	<b>13-16</b>	<b>Total</b>	<b>14-15</b>



## BUSINESS ADMINISTRATION – AGRICULTURAL BUSINESS OPTION

The Business Administration major with the 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. Students selecting this option may also choose to complete the requirements for the Marketing option. The credits used to meet the Agricultural Business electives may not be used to also meet the Marketing electives.

A student studying agricultural business must complete the following requirements:

### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Major Requirements:

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

#### Other Departmental Requirements:

<sup>1</sup> Econ 364W Macroeconomics	4
**Ag 101T Introductory Animal Science	4
Ag 102 Principles of Crop Production	4
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 Integrated Pest Management/Weed Control	4
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
TS2T 402 Agricultural Issues in Society	3

#### Business Administration/Economics:

Econ 361 Managerial Economics	4
Econ 390 Special Topics	4
BA 311 Business Law I	3
BA 312 Business Law II	3
BA 387 Real Estate	4
BA 392 Research Topics--Ag Business Related	1-3
BA 401W Entrepreneurship and Small Business Mngmt	3
BA 437 Internship in Business—Ag Business Related	3
Econ 335 Environmental Economics	4

**Subtotal Other Departmental Requirements 27<sup>2</sup>**

**TOTAL MAJOR REQUIREMENTS 77**

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.*

<sup>1</sup>Completion of this course fulfills the Group W requirement for students in the agricultural business option.

<sup>2</sup>The 27 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 program, 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 business administration must complete the following requirements:

### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

#### Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
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Plus a minimum of 15 credits of business administration courses selected from the following three groups (MK, MG, FI), with at least one course from each group<sup>1,2</sup>:

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 372W	Global Business Seminar	4
BA 390	Special Topics in Marketing	3
BA 392	Research Topics—Marketing Related	1-3
BA 402	Electronic Commerce	4
BA 437	Internship in Business – Marketing Related	3
BA 445W	Marketing Strategy and Policy	4
BA 446	Marketing Research	4

Group MG: MANAGEMENT

**BA 271R	Fundamentals of International Business	3
BA 302W	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 315W	International Law	3
BA 316	Tourism and Recreation Law	3
BA 330	Tourism and Resort Management	4
BA 370	Topics in International Business	1-6
BA 372W	Global Business Seminar	4
BA 390	Special Topics in Management	1-4
BA 392	Research Topics—Management Related	1-3
BA 401W	Entrepreneurship and Small Business Mngmt	3
BA 402	Electronic Commerce	4
BA 407W	Management Consulting	4
BA 415	Management in Action	3
BA 437	Internship in Business – Management Related	3
BA 439	Marketing and Management of Services	4

Group FI: FINANCE

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

**Total Other Departmental Requirements 19**

**TOTAL MAJOR REQUIREMENTS 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.*

<sup>1</sup>Completion of Econ 364W, BA 302W, BA 315W, BA 372W, BA 401W, BA 407W, BA 445W or BA 481W fulfills the Group W requirement for students in the business administration option.

<sup>2</sup>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.

<sup>3</sup>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 with the 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 management option must complete the following requirements:

**General Education 35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 46) 42

Other Departmental and Auxiliary Requirements:

<sup>1</sup> BA 302W	Human Resource Management	4
Engr103	Computer-Aided Drafting	3
Engr 104	Computer Programming for Scientists & Engineers	3
Engr 217	Statics	3
Engr 221	Dynamics	3
**Math 221Q	Calculus I	4
**Math 222Q	Calculus II	4
CSIS 322	Management Information Systems	4
**Phys 217Tx	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
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

**Total Other Departmental Requirements 45-46**

**TOTAL MAJOR REQUIREMENTS 87-88**

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup>Completion of this course fulfills the Group W requirement for students in the engineering management 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 – FINANCE OPTION

The Business Administration major with a 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 the rapidly 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 finance must complete the following requirements:

**General Education** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

<sup>3</sup>Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
<sup>1</sup> BA 481W Cases in Financial Management	4
BA 485 Investments and Portfolio Management	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	4
BA 392 Research Topics—Finance Related	1-3
BA 437 Internship in Business – Finance Related	3
<sup>2</sup> Econ 369 Public Finance	4
<sup>2</sup> Econ 371 International Economics	4
<sup>2</sup> Econ 364W Macroeconomic Theory	4

**Total Other Departmental Requirements** **19<sup>3</sup>**

**TOTAL MAJOR REQUIREMENTS** **69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

<sup>1</sup>Completion of this course fulfills the Group W requirement for students in the finance option.

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

<sup>3</sup>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.

**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 with the 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 the option 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 75)	42
SOBA Quantitative Reasoning Requirements	4

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

CSIS 360 and <sup>1</sup>361W (Software Engineering I & Computers and Human Issues) 8

OR

<sup>1</sup>CSIS 425W and one course from approved elective list:

CSIS 370 Software Engineering II: Systems Analysis
CSIS 402 Electronic Commerce
BA 392 Research Topics—Info Management Related

**Total Other Departmental and Auxiliary Requirements** **28<sup>2</sup>**

<b>TOTAL MAJOR REQUIREMENTS</b>	<b>74</b>
<b>Free Electives (variable)</b>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

<sup>1</sup>Completion of this course fulfills the Group W course requirement.

<sup>2</sup>The 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 with the international business option has been designed to prepare 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 46)	42
SOBA Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### Other Departmental Requirements:

A minimum of 15 credit hours from the following courses: <sup>1,2</sup>

BA 271R Principles of International Business	3
BA 302W Human Resource Management	4
BA 313 Ethical Issues in Business	3
<sup>3</sup> BA 315W International Business Law	3
BA 316 Tourism and Recreation Law	3
BA 370 Topics in International Business	1-6
<sup>3</sup> BA 372W Global Business Seminar	4
BA 375 Studies in European Business	3-18
BA 389 International Finance	4
BA 390 Special Topics (with International emphasis)	1-4
BA 392 Research Topics—Int'l Business Related	1-3
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 International emphasis)	1-4
Econ 410 Economics, a Radical Perspective	4
ML 309 Business French	3
ML 350 Spanish for the Professions	4

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.
4. Residence abroad—minimum of three months.
5. Extensive individual travel abroad. Each method requires documentation, and approval of the SOBA Director of Foreign Studies.

B. Modern Language Proficiency.

This requirement can be met in several ways:

1. Completion of a 200-level modern language course.
2. Score of 3 or above on an AP modern language exam.
3. ACTFL proficiency exam score.
4. Native speaker of a language other than English.
5. Completion of an intensive language training program.

Each method requires documentation and approval of the SOBA Director of Foreign Studies.

**Total International Experience and/or Modern Language Proficiency** **0-12**

**Total Other Departmental Requirements** **15**

**TOTAL MAJOR REQUIREMENTS** **65-77**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

<sup>1</sup>The 15 credits used to satisfy an option in International Business may not be used to satisfy any other major, minor or option.

<sup>2</sup>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.

<sup>3</sup>Completion of BA 372W or BA 315W fulfills the Group W requirement for students in the International Business 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 – MANAGEMENT OPTION

The Business Administration major with the 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

**MAJOR REQUIREMENTS:**

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

<sup>1</sup>Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
Plus a minimum of 15 credits from the following courses <sup>1</sup> :	
**BA 271R Fundamentals of International Business	3
<sup>2</sup> BA 302W 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
<sup>2</sup> BA 315W International Business Law	3
BA 316 Tourism and Recreation Law	3
BA 330 Tourism and Resort Management	4
BA 370 Topics in International Business	1-6
BA 390 Special Topics in Management	1-4
BA 392 Research Topics—Management Related	1-3
<sup>2</sup> BA 401W Entrepreneurship and Small Business Mngmt	3
<sup>2</sup> BA 407W Management Consulting	4
BA 415 Management in Action	3-6
BA 437 Internship in Business – Management Related	3
BA 439 Marketing and Management of Services	4

**Total Other Departmental Requirements** **19<sup>1</sup>**

**TOTAL MAJOR REQUIREMENTS** **69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

<sup>1</sup>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.

<sup>2</sup>Completion of Econ 364W, BA 302W, BA 401W or BA 407W fulfills the Group W requirement for students in the management 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 – MARKETING OPTION

The Business Administration major with the 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

**MAJOR REQUIREMENTS:**

Common SOBA Requirements (see page 46)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

<sup>2</sup>Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
BA 347 Consumer Behavior	3
<sup>1</sup> BA 445W 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 344 Advertising	3
BA 346 Managing Customer Value	4
BA 348 Public Relations	3
BA 372W 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

**Total Other Departmental Requirements** **19<sup>2</sup>**

**TOTAL MAJOR REQUIREMENTS<sup>2</sup>** **69**

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

<sup>1</sup>Completion of this course fulfills the Group W requirement for students in the marketing option.

<sup>2</sup>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 with a 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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 46)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

### <sup>2</sup>Other Departmental Requirements:

One (1) 300- or 400-level Economics Course	4
BA 330 Tourism and Resort Management	4
BA 437 Internship in Business—Tourism Related (With approved industry work experience, an additional BA elective from the list below may be substituted for BA 437.)	3
BA 439 Marketing and Management of Services	4

Plus one additional course from the following:

<sup>1</sup> BA 302W Human Resource Management	4
BA 316 Tourism and Recreation Law	3
<sup>1</sup> BA 407W Management Consulting	4
BA 446 Marketing Research	4

**Total Other Departmental Requirements<sup>2</sup> 18-19**

**TOTAL MAJOR REQUIREMENTS 68-69**

Free Electives (variable)

**TOTAL REQUIRED FOR GRADUATION 120**

<sup>1</sup> Completion of BA 302W or 407W fulfills the Group W requirement for students in this option.

<sup>2</sup>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 begin on page 138.

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 in either Business Economics or Economics.

## ECONOMICS – BUSINESS ECONOMICS OPTION

The 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****35-46**

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

MAJOR REQUIREMENTS:

Common SOBA Requirements (see page 75)	42
Quantitative Reasoning Requirements	4
Auxiliary Requirements	4

<sup>1</sup>Other Departmental Requirements:

Econ 356 Microeconomic Theory	4
<sup>2</sup> Econ 364W 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 Environmental Economics	4
Econ 361 Managerial Economics	4
Econ 369 Public Finance	4
Econ 371 International Economics	4
BA 382/Econ 382 Financial Institutions	4
Econ 390/391 Special Topics in Economics	4
Econ 410 Economics: A Radical Perspective	4

**Total Other Departmental Requirements** 20<sup>1</sup>**TOTAL MAJOR REQUIREMENTS** 70**Free Electives (variable)****TOTAL REQUIRED FOR GRADUATION** 120

<sup>1</sup>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.

<sup>2</sup>Completion of Econ 364W fulfills the Group W requirement for students in the Business Economics 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.*

## ECONOMICS – ECONOMICS OPTION

The Economics option focuses mainly 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 requirements 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.

Students majoring in the Economics option must complete the following departmental requirements:

**General Education****35-46**

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

MAJOR REQUIREMENTS:

**BA 253Q Business Statistics	4
BA 221 Writing in the Business World	3
**Econ 266S Principles of Economics	4
Econ 361 Managerial Economics	4
Econ 356 Microeconomic Theory	4
<sup>2</sup> Econ 364W Macroeconomic Theory	4
BA 392 Research Topics—Economics Related	1-3
BA 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 Environmental Economics	4
Econ 369 Public Finance	4
Econ 371 International Economics	4
Econ 382/BA 382 Financial Institutions	4
Econ 390/391 Special Topics in Economics (As approved by the Department)	4
Econ 410 Economics: A Radical Perspective	4

**TOTAL MAJOR REQUIREMENTS** 38-41**Free Electives (variable)****TOTAL REQUIRED FOR GRADUATION** 120

<sup>2</sup>Completion of Econ 364W fulfills the Group W requirement for students in the Economics 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/Economics Majors Suggested Course Sequence<sup>1</sup>

Freshman Year			
Fall		Winter	
BA 101	4 <sup>2</sup>	Econ 266 S	4
TS1 and /or Electives	9	Comp 150	4
ES 100	1	Lib 150	1
		TS1 and/or Elective	4
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>13</b>
Sophomore Year			
Fall		Winter	
Acc 225	4	Acc 226	4
BA 260 S	3	BA 253	4
BA 221	3	TS1 and/or Elective	8
PE Activities	1		
TS1 and/or Electives	4		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>16</b>
Junior Year			
Fall		Winter	
BA 301	4	BA 353	4
BA 380	4	BA Electives	4
Q/R Course	4	CSIS 322	4
BA 340	4	TS2 and/or Elective	4
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>16</b>
Senior Year			
Fall		Winter	
BA Electives	7	BA 496	4
TS2 and/or Electives	8	BA Elective	3
		TS2 and/or Electives	8
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>

<sup>1</sup>This does not apply to the Engineering Management option. Students seeking this option should develop a course sequence with their business administration advisor immediately after selecting the option.

<sup>2</sup>BA 101 Business in the Modern World is NOT required for a major in Business Administration or Economics; however, the course provides a good overall introduction to business. It is strongly recommended that students develop a course sequence sheet with their business administration advisor prior to the beginning of their junior year or substantial delay in graduation may result.

## 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:<sup>1</sup>

Acc 225	Introduction to Financial Accounting	4
Acc 226	Introduction to Managerial Accounting	4
Acc 323	Intermediate Accounting I	4
<b>Total</b>		<b>12</b>

#### Electives:

Any two upper division Accounting courses with ACC prefix.

Total Elective hours	6-8
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**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, Economics, or Sports Administration, may complete a minor in Business Administration upon satisfactorily fulfilling the following requirements:<sup>1</sup>

**Econ 266S	Principles of Economics	4
Acc 225	Introduction to Financial Accounting	4
**BA 260S	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 340	Marketing	4
Econ 201, CSIS 322, or one (1) upper-division Business Administration Elective (4 credit minimum)		3-4
<b>Total</b>		<b>22-23</b>

<sup>1</sup>Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.

## ECONOMICS MINOR

Course listings for Economics Minor begin on page 138.

### 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:<sup>1</sup>

**Econ 266S	Principles of Economics	4
Electives:		
Fourteen (14) semester hours of additional Economics courses, twelve (12) must be upper-division		14
<b>TOTAL REQUIRED FOR ECONOMICS MINOR</b>		<b>18</b>

<sup>1</sup>Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.



## 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:<sup>1</sup>

BA 205	New Business Venturing	3
BA 221	Writing in the Business World	3
BA 240	Business Creativity and Innovation	2
<b>Subtotal</b>		<b>8</b>

Electives – Choose a minimum of 11 hours, at least 6 hours of which must be 300-level or above:

Acc 225	Financial Accounting	4
**Econ 201Q	Personal Finance	3
**Econ 266S	Principles of Economics	4
**BA 260S	Legal Environment of Business	3
BA 301	Management and Organizational Behavior	4
BA 302W	Human Resource Management	4
BA 308	Office Management	3
BA 330	Tourism and Resort Management	4
BA 340	Marketing	4
BA 342	Retailing	3
BA 346	Managing Customer Value	4
<sup>2</sup> BA 401W	Entrepreneurship and Small Business Management	3
<b>Subtotal</b>		<b>11</b>

**TOTAL REQUIRED FOR ENTREPRENEURSHIP AND SMALL  
BUSINESS MANAGEMENT MINOR 19**

<sup>1</sup>Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.

<sup>2</sup>Please refer to catalog description as this course requires the completion of a prerequisite course(s) prior to enrollment.

## 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 266S	Principles of Economics	4
BA 101	Business World	4
BA 340	Marketing	4
<b>Subtotal</b>		<b>12</b>

Minimum of eight (8) hours selected from the following:

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 372W	Global Business Seminar	4
BA 439	Marketing and Management of Services	4
BA 445W	Marketing Strategy and Policy	4

**Subtotal 8-9**

**TOTAL REQUIREMENTS FOR MARKETING MINOR 20-21**

<sup>1</sup>Contact the Office of the Dean of the School of Business Administration once the requirements for a minor in Accounting, Business Administration, Marketing or Economics are complete.



# CHEMISTRY

Course listings for Chemistry begin on page 134.

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

The chemistry curriculum provides modern chemical skills and knowledge for students preparing for careers in areas such as environmental analysis, biotechnology, teaching, medicine, pollution control, and engineering. Many students continue their studies in professional or graduate programs while others start technical careers immediately after graduation.

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. The *chemistry for secondary teachers option* prepares students for teaching science at the secondary or elementary levels. This last option is not recommended for students interested in graduate programs in chemistry or biochemistry or employment in related industries.

The Chemistry Department offers certification by the American Chemical Society to students completing the ACS-certified curriculum. Preparation for graduate school often involves advanced elective 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 Preparatory Programs section of this catalog.)

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

Chemistry graduates will find many applications for their training in the fields of education, business, industry, law, government, and medicine.

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** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W 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**

Auxiliary Requirements for Other Departments:

**Math 221Q-**222Q Calculus I & II	8
**Phys 217Tx Physics for Science and Engineering I (preferred)	5
OR	
Phys 201 College Physics I	4
AND	
Phys 218 Physics for Science and Engineering II (preferred)	5
OR	
Phys 202 College Physics 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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W 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

#### Auxiliary Requirements from Other Departments:

**Math 221Q.**222Q Calculus I & II	8
Bio 113 Introduction to Molecular and Cellular Biology	4
**Phys 217Tx Physics for Science and Engineering I (preferred)	5

OR

Phys 201 College Physics I	4
AND	
Phys 218 Physics for Science and Engineering II (preferred)	5
OR	
Phys 202 College Physics 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 112N 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); they may take the writing class in either chemistry (Chem 300W) or biology (Bio 380W); these students do not have to take both senior seminar sequences or both writing classes.

#### Free Electives (variable)

#### TOTAL REQUIRED FOR GRADUATION 120

## CHEMISTRY – CHEMISTRY FOR SECONDARY TEACHERS OPTION

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

#### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**Chem 123T Chemistry for Consumers	
OR	
Chem 323 Chemistry for Consumers	3
**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Chem 125N Environmental Chemistry	4
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4
Chem 300W At the Forefront of Chemical Research	3
Chem 311 General Biochemistry I	3
Chem 365 Analytical Chemistry	4
Chem 496 Senior Seminar	1
Chem 497 Senior Seminar	1

Choose one from the following:

Chem 356 Physical Chemistry I	3
Chem 363 Inorganic Chemistry	3

#### Subtotal Specific Departmental Requirements 38

#### Auxiliary Requirements from Other Departments:

**Geol 107Nx Earth Systems Science	4
**Math 221Q Calculus I	4
Phys 201-202 College Physics I & II	8
**Bio 112N Intro to Organismic and Evolutionary Biology	4
**ED 200R Intro to Education in America	4
**ED 210S Culture of Childhood and Youth	4
ED 421 Individualized Instruction in a Pluralistic Society	6
ED 424 Language and Math Literacy	4
ED 495 Student Teaching	15

#### Subtotal Auxiliary Requirements 53

#### 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 MINOR

### REQUIREMENTS FOR A MINOR IN CHEMISTRY:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Chem 250 Organic Chemistry I	
OR	
Chem 363 Inorganic Chemistry	3-4
AND	
Chem 365 Analytical Chemistry	4
Choose one of the following:	
Chem 305 Natural Products from Plants	3
Chem 311 General Biochemistry I	3
Chem 356 Physical Chemistry I	3

**TOTAL REQUIRED FOR CHEMISTRY MINOR 18-19**

### 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. 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 PreProfessional Advisory Committee. (See Health Careers Programs section of this catalog, page 77.)

## COMPUTER SCIENCE INFORMATION SYSTEMS (CSIS)

*Course listings for Computer Science Information Systems begin on page 136.*

Coordinator - Evans Adams  
Professors - Evans J. Adams, and Lawrence S. Corman  
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 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 data-processing problem and for organizing the database in a suitable form. A significant portion of the courses for this option also will 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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

CSIS 110 Introduction to Programming (Java)	4
CSIS 230 Object-Oriented Programming	4
CSIS 310 Data Structures	4
CSIS 321 Computer Architecture and Organization	4
CSIS 361W Computers and Human Issues	4
CSIS 496 Senior Seminar	2

One of the following two sequences:

CSIS 320 Assembly Language Programming	4
AND	
CSIS 421 Operating Systems	4
OR	
CSIS 328 Fundamentals of Data Communications	4
AND	
CSIS 428 Computer Networks and Internets	4

CSIS Electives:

Four additional upper level CSIS courses chosen with approval of CSIS faculty. 16

**Subtotal Specific Departmental Requirements** **46**

Auxiliary Department Requirements:

**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 305Q Discrete Mathematical Structures	4
**Math 320Q Numerical Analysis	
OR	
**Math 360Q Introduction to Operations Research	3-4

**Subtotal Auxiliary Requirements** **15-16**

**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** **35-46**  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

CSIS 105 The Computer as a Tool	4
CSIS 106 Introduction to Programming in Visual Basic	4
CSIS 110 Introduction to Programming (Java)	4
CSIS 206 Advanced Programming in Visual Basic	4
CSIS 350 Database Management Systems	4
CSIS 360 Software Engineering I: Systems Analysis	4
CSIS 361W Computers and Human Issues	4
CSIS 370 Software Engineering II: Systems Design and Implementation	4
CSIS 496 Senior Seminar	2

CSIS Electives:

Three additional upper level CSIS courses, chosen with approval of CSIS faculty. 12

**Subtotal Specific Departmental Requirements** **46**

Auxiliary Department Requirements:

**Math 201Q Elementary Statistics	
OR	
**BA 253Q Business Statistics	4
**Math 210Q Survey of Calculus	4
BA 353 Operations Management	
OR	
**Math 360Q Introduction to Operations Research	4

**Subtotal Auxiliary Requirements** **12**

**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 at the College. By doing so, the student will (a) solidify his/her liberal arts education and (b) 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 SYSTEMS SCIENCE INFORMATION MINOR

### REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE INFORMATION SYSTEMS:

Choose one of the following two sequences:

CSIS 110 Introduction to Programming (Java)	4
CSIS 230 Object-Oriented Programming	4
OR	
CSIS 106 Intro to Programming in Visual Basic	4
CSIS 206 Advanced Programming in Visual Basic	4
Three additional CSIS courses, at least 2 of which are numbered above 300.	12
<b>TOTAL REQUIRED FOR CSIS MINOR</b>	<b>20</b>

## CRIMINOLOGY MINOR

*(See page 103.)*

# ENGINEERING

*Course listings for Engineering begin on page 142.*

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

The Engineering program at Fort Lewis College is designed to meet the needs of those students who are interested in obtaining an engineering degree, but prefer to complete their first two years of study at a small college with a liberal arts emphasis. After completing a requisite block of courses that includes engineering, mathematics, the sciences, and the humanities, students are eligible for full junior standing at one of the institutions with which Fort Lewis College maintains a transfer agreement. Or, the student may choose to apply to any other degree granting engineering program as a normal transfer student.

Fort Lewis College participates in formal engineering transfer agreement programs with Colorado State University (CSU) at Fort Collins, Colorado School of Mines (CSM) at Golden, the University of Colorado (CU) at Boulder, Colorado State University at Pueblo, the University of New Mexico (UNM) at Albuquerque, and New Mexico State University (NMSU) at Las Cruces.

Under these block-transfer agreements the student completes the prescribed sequence of courses, listed below, in residence at Fort Lewis College. Successful completion of this sequence with the required minimum GPA is sufficient for the collective transfer of these courses to the cooperating institution with full junior standing. For those students who can take calculus their first term, the block transfer sequence may be completed in two years of residence at Fort Lewis College. For detailed information on specific agreements and programs, students should consult with an engineering advisor.

Required minimum grade point averages by school:

- Colorado State University – 2.5
- Colorado School of Mines – 2.5
- University of Colorado – 2.75
- Colorado State University at Pueblo – 2.5 (Industrial Engineering only)
- University of New Mexico – 2.25 (Completion of an additional 18 technical hours with a grade point of at least 2.5 is required.)
- New Mexico State University – 2.75 (Regular admission. 2.0-2.75 Provisional admission – must establish a minimum GPA at NMSU, depending on the major.)

Note:

1. Only those courses in which a student received a "C" or higher will transfer.
2. The grade point average requirements can change without notice, and those listed in this catalog may not be current and should be used as a general guide only. Check with your advisor for current GPAs.

Although the above plans pertain specifically to the agreements with the schools listed above, the courses offered are ordinarily accepted for credit for comparable courses at other degree-granting engineering institutions. In addition, the engineering courses are often used by students in planning student-constructed majors at Fort Lewis College. Student-constructed majors using the engineering courses are available in conjunction with physics, geology, mathematics, and other disciplines. The student should consult with his or her advisor and the Academic Advising Center if interested in a student-constructed major.

### Engineering Related Degrees

Two engineering related degrees are offered at Fort Lewis College. The first is the Engineering Physics option to the Physics degree. This program offers a combination of physics and engineering courses resulting in a BS degree from Fort Lewis College. This program is under review for accreditation by ABET. For more information please see the Physics section of this catalog. The second is a cooperative effort between the engineering program and the School of Business Administration resulting in a four-year degree program in Engineering Management. For more information, please see the Business Administration section of this catalog.

Students who are interested in obtaining a mathematics degree in addition to an engineering degree may wish to pursue a 3-2 program. The student attends Fort Lewis College for six terms (equivalent to three academic years) and the cooperating institution for two academic years. During residence at Fort Lewis College, the student completes the requirements for the basic engineering core and most of the requirements for a mathematics major. At the cooperating institution the student completes the remaining requirements for a Bachelor of Arts degree in Mathematics, awarded by Fort Lewis College, and the requirements for an engineering degree from the cooperating institution.

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

The Engineering program is supported by the College's modern computer facilities. Registered students may use any of the student computing labs, which are generally open seven days a week. These facilities include PC and Macintosh computers and laser printers. Internet connectivity is provided through the campus network; modem access is also available.

The transfer agreements listed below can change without notice and may not be current. They should be used as a general guide only. Check with your advisor for current transfer agreement information.

### CSU TRANSFER AGREEMENT

#### Common courses required of most students:

Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105* Engineering Principles	3
Engr 217 Statics	3
Engr 221* Dynamics	3
Engr 270* Engineering Thermodynamics	3
Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, II	12
Math 327Q Differential Equations	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
**Chem 150Nx, 151Tx* Fundamentals of Chemistry	8
Humanities and Social Science Electives	6
PE Act Physical Activities	2

\*Electrical Engineering majors take Engr 238, Engr 201, Engr 202, and Econ 266S instead. Additional courses may be required for specific majors (see an Engineering advisor).

### CSM TRANSFER AGREEMENT

#### Specific courses required of all students:

Math 221Q, 222Q, 223Q Calculus I, II, III	12
Math 327Q Differential Equations	4
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 217 Statics	3
**Chem 150Nx, 151Tx Fundamentals of Chemistry	8
Geol 113Tx Physical Geology and Lab	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Econ 266S Principles of Economics	4
PE Act Physical Activities	2
Humanities and Social Science Electives	9

Additional course(s), depending on the intended major, selected from:

Engr 103 Computer Aided Drafting	3
Engr 201,202 Electric Networks I, II	8
Engr 205 Surveying I	4
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3
Engr 317 Mechanics of Materials	3
Engr 321 Fluid Mechanics	3
Geol 114 Historical Geology and laboratory	4
Math 311Q Matrices and Linear Algebra	4
Math 320Q Numerical Analysis	3
Chem 357 Physical Chemistry	3
Phys 320 Modern Physics	3
Chem 250 Organic Chemistry I	4
Chem 251 Organic Chemistry II	4

## CU TRANSFER AGREEMENT

### Common courses required of most students:

Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 217* Statics	3
Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Chem 150Nx Fundamentals of Chemistry	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Humanities and Social Sciences Electives	6-9

\*Electrical, Electrical and Computer Engineering majors take Engr 238, Engr 201, Engr 202 instead.

Additional courses are required for specific majors (see an Engineering advisor).

## UNM TRANSFER AGREEMENT

### Common courses required of most students:

Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Chem 150Nx, 151Tx Fundamentals of Chemistry	8
Engr 103 Computer Aided Drafting	3
Engr 104 Computer Prog for Scientists and Engineers	3
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Engr 201 Electric Networks I	4
Math 327Q Differential Equations	4
PE Act Physical Activities	2

Minimum of 15 additional credits, depending on major, selected from:

Engr 202 Electric Networks II	4
Engr 205, 305 Surveying I, II	8
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 238 Digital Logic Design	4
Engr 270 Engineering Thermodynamics	3
Engr 317 Mechanics of Materials	3
Engr 321 Fluid Mechanics	3
Phys 320 Modern Physics	3
Math 311Q Matrices and Linear Algebra	4
CSIS 230 Object-Oriented Programming in C++	4
Chem 250, 251 Organic Chemistry I, II	8
Econ 266S Principles of Economics	4
Bio 110N Modern Biological Issues	4
Bio 207 General Zoology	4
Humanities and Social Science Electives	

## CSU AT PUEBLO TRANSFER AGREEMENT FOR INDUSTRIAL ENGINEERING

Engr 103 Computer Aided Drafting	3
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 201 Electric Networks I	4
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3
Engr 317 Mechanics of Materials	3
Math 221Q, 222Q Calculus I, II	8
Math 311Q Matrices and Linear Algebra	4
Math 327Q Differential Equations	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
**Chem 150Nx, 151Tx Fundamentals of Chemistry	8
Comp 150 Reading and Writing in College	4
Humanities and Social Sciences Electives	3

## NMSU TRANSFER AGREEMENT

### Common courses required of all students:

Comp 150 Reading and Writing in College	4
Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Chem 150Nx Fundamentals of Chemistry	4
Phys 217Tx, 218 Physics-Science and Engineering I, II	10
Engr 103 Computer Aided Drafting	3
Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 201 Electric Networks I	4
Engr 217 Statics	3
Engr 221 Dynamics	3
Engr 270 Engineering Thermodynamics	3
Econ 266S Principles of Economics	4
Comp 115 Speech: A Rhetorical Act	3
Humanities and Social Science Electives	9

Additional courses depending on the intended major (see an engineering advisor for specific courses).

## ENGINEERING MINOR

Course listings for Engineering Minor begin on page 142..

### REQUIREMENTS FOR A MINOR IN ENGINEERING:

Engr 104 Computer Prog. for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 217 Statics	3

Plus three additional Engineering courses numbered 200 or above. 9-12

**TOTAL REQUIRED FOR ENGINEERING MINOR 18-21**



# ENGLISH

Course listings for English begin on page 143.

Department Chair - Gordon P. Cheesewright  
 Professors - Gordon P. Cheesewright, Larry K. Hartsfield, Mary Jean Moseley  
 Associate Professors - Jennie C. Dear, Jennifer A. Gehrman, Michele M. Malach, Faron L. Scott, Delliah G. Orr  
 Assistant Professors - Bradley P. Benz, Nancy K. Cardona, Shawn Fullmer, Kurt W. Lancaster, Celestine Woo

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 the 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 English Education Option:** Preparation for secondary school teaching.

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

Minors in literature, writing, and communications are available for students majoring in other disciplines. Requirements for these minors are described below.

## ENGLISH – GENERAL OPTION

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

**General Education** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

Choose one from the following six courses: 4

\*\*Engl 174R African-American Literature

\*\*Engl 175R Women's Literature

\*\*Engl 176R Native American Literature

\*\*Engl 177R U.S. Latina/o Literature

\*\*Engl 221R Classical Literature

\*\*Engl 280R Literature of the Southwest

Engl 268W Reading Texts/Writing Texts 4

\*\*Engl 230R Survey of British Literature 4

\*\*Engl 240R Survey of American Literature 4

Engl 320 The Novel 4

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: 4

Engl 315, 317, 330, 340, 341, 345, 346, 380, 417, 4

420, 423, 430, 461, 462, 477, Thea 340W, 381 4

Engl 496 Senior Seminar 4

**Note:** Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements** **48**

Auxiliary Requirements:

Two semesters of one college-level modern language 6-8

**Free Electives (variable)**

(English advisors can help students select courses that 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 – COMMUNICATIONS OPTION

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

#### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

\*\*Engl 116T Introduction to Mass Communications 4

Choose one of the following six courses: 4

\*\*Engl 174R African-American Literature

\*\*Engl 175R Women's Literature

\*\*Engl 176R Native American Literature

\*\*Engl 177R U.S. Latina/o Literature

\*\*Engl 221R Classical Literature

\*\*Engl 280R Literature of the Southwest

Engl 215 News Media Writing 4

Choose one of the following two courses: 4

\*\*Engl 230R Survey of British Literature

\*\*Engl 240R Survey of American Literature

Engl 268W Reading Texts/Writing Texts 4

Choose one of the following two courses: 4

Engl 304 Digital Video Production

Engl 306 Radio Broadcasting

Choose one of the following three courses: 4

Engl 315 Media Writing: Topics

Engl 363 Advanced Composition

Engl 464 Creative Writing

Engl 416 Media Theory and Criticism 4

Choose two Topics courses from the following:

Engl 315 (excluding 315 if used to satisfy other major

requirements), 317, 320, 330, 340, 341, 345, 346,

380, 417, 420, 423, 430, 477, Thea 340W, 381 8

At least four credits from:

Engl 250/350 Practicum—Newspaper

Engl 251/351 Practicum—Radio

Engl 404 Advanced Video Production 4

(**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 6 credits and Engl 350/351 up to 12 credits.)

Engl 496 Seminar 4

**Note:** Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements 48**

#### 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 – ENGLISH EDUCATION OPTION

The English Education Option gives high-quality academic preparation to students who wish to become secondary teachers of English. This option recognizes that secondary-education teachers must be able to teach in all standard areas of literature, language and composition, and frequently must also engage in teaching more specialized areas, such as reading, drama, and/or journalism. Therefore, this option is extremely demanding and requires careful planning and advising. Students choosing this option should consult the English Education Advisor as early as possible in their college careers.

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

#### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

\*\*Engl 116T Introduction to Mass Communications 4

Choose one Literature course from the following: 4

Engl \*\*174R, \*\*175R, \*\*176R, \*\*177R,

\*\*221R, \*\*280R

\*\*Engl 230R Survey of British Literature 4

\*\*Engl 240R Survey of American Literature 4

Engl 268W Reading Texts/Writing Texts 4

Engl 366 Teaching Writing 4

Choose one Topics course from the following<sup>1</sup>: 4

Engl 317, 320, 330, 340, 341, 345, 346, 380,

417, 420, 423, 430, 477

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<sup>1</sup> 4

**Note:** Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements 52**



Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Auxiliary Requirements:

Two semesters of one college-level modern language<sup>1</sup> 6-8

<sup>1</sup>A teacher-candidate who holds a Bachelor of Arts or a Bachelor of Science degree from any institution other than Fort Lewis College is exempt from this requirement.

**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 – WRITING OPTION

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

**General Education 35-46**

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

Choose one of the following six courses: 4

\*\*Engl 174R African-American Literature

\*\*Engl 175R Women's Literature

\*\*Engl 176R Native American Literature

\*\*Engl 177R U.S. Latina/o Literature

\*\*Engl 221R Classical Literature

\*\*Engl 280R Literature of the Southwest

Engl 215 News Media Writing 4

Choose one of the following two courses: 4

\*\*Engl 230R Survey of British Literature

\*\*Engl 240R Survey of American Literature

Engl 267: Persuasion: Hist, Theo, Prac 4

Engl 268W Reading Texts/Writing Texts 4

Engl 273: Intro to Literary Types 2

Engl 315: Media Writing Topics 4

Engl 363: Advanced Composition 4

Engl 464: Creative Writing 4

Choose two courses from the following: 8

317, 320, 330, 340, 341, 345, 346, 366, 378, 380, 416, 417, 420, 423, 430, 432, 461, 462, 477

Engl 496 Seminar 4

**Note:** Engl 499 cannot replace Engl 496.

**Subtotal Specific Departmental Requirements 46**

**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.*

## COMMUNICATIONS MINOR

### REQUIREMENTS FOR A MINOR IN COMMUNICATIONS:

This minor requires 22 - 24 credit hours.

The following courses are required:

\*\*Engl 116T Introduction to Mass Communications 4

Engl 215 News Media Writing 4

Engl 304 Digital Video Production

OR

Engl 306 Radio Broadcasting 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

OR

Engl 251/351 Practicum—Radio

OR

Engl 404 Advanced Video Production 4

**TOTAL REQUIRED FOR COMMUNICATIONS MINOR 22-24**

## LITERATURE MINOR

### REQUIREMENTS FOR A MINOR IN LITERATURE:

This minor requires 20 credit hours.

The following three courses are required:

\*\*Engl 230R Survey of British Literature 4

\*\*Engl 240R 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 330 Continental Literature: Topics

Engl 340 19<sup>th</sup> 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 420 World Literature: Topics

Engl 423 Genres: Topics

Engl 430 Medieval Literature and Chaucer: Topics

Engl 477 20<sup>th</sup> Century Literature: Topics

**TOTAL REQUIRED FOR LITERATURE MINOR 20**

## WRITING MINOR

### REQUIREMENTS FOR A MINOR IN WRITING:

This minor requires 16 credit hours.

The following course is required:

Engl 267 Persuasion: History, Theory & Practice 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 POLICY MINOR

Coordinator - Mark Seis

Advisors:

John W. Byrd, Biology; Robert R. Bunting, Southwest Studies and History; Reyes R. Garcia, Philosophy; Gary Gianniny, Geosciences; Donald R. Gordon, Anthropology; Alane Brown, Psychology; Mark Seis, Sociology/Human Services; and Leslie E. Sommerville, Chemistry.

Environmental Policy takes a transdisciplinary approach to the study of broad-based environmental issues, from the point of view of the sciences and areas of humanities, social sciences, and policy. Students of any major can complement their course of study and demonstrate their commitment to environmental concerns by completing this minor. Additional goals for the Environmental Policy minor include providing information to students who may desire post-graduate training in an area of environmental concern and advising by Environmental Policy area advisors about career and graduate school opportunities. Courses in the science area or courses that could fulfill general requirements are recommended to the student who wishes to pursue this minor. It is the spirit of this minor to provide students with a breadth of experience across various departments. Students are strongly recommended to work closely with their advisor to choose courses that complement their major area of specialization.

Students interested in completing the minor should contact the coordinator, Mark Seis, as soon as possible so they can learn about campus events, new courses, internships, and practicum opportunities relevant to the minor.

There are three components to the minor:

1) Students select 18 hours from a list of existing courses representing the spectrum of 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 background come together to work on joint projects related to local, regional, or national environmental concerns.

## REQUIREMENTS FOR THE ENVIRONMENTAL POLICY MINOR:

### Specific Requirements:

- GS 495 Environmental Colloquium 4
- 18 hours of additional credit chosen from the list below, at least nine hours of which must be upper-division credits. No more than 4 credits from Independent Study, Internship, Innovative Month, or Practicum are allowed without prior approval of coordinator. It is the spirit of this minor to provide students with a breadth of experience across various departments. Students are strongly recommended to work closely with their advisor to choose courses that complement their major area of specialization. **NOTE: NO MORE THAN ONE COURSE FROM YOUR MAJOR DEPARTMENT WILL COUNT TOWARD THIS MINOR.**

List of possible courses for the minor (the prerequisites for each selected course must also be taken):

\*\* Courses marked with double asterisks may also be counted toward TS1 requirements.

#### Agriculture:

Ag 301 Range Management 4

#### Anthropology:

Anth 225 Introduction to Population Issues 1  
Anth 356 Ecological Anthropology 4

#### Biology:

\*\*Bio 125Nx Conservation Biology 4  
\*\*Bio 141N Global Ecological Issues 3  
Bio 220 Fundamentals of Ecology 4  
Bio 471 Field Ecology 5

#### Chemistry:

\*\*Chem 123 Chemistry for Consumers 3  
Chem 323 Chemistry for Consumers 3

#### Economics:

Econ 335 Environmental Economics 4

#### Engineering:

Engr 205 Surveying I 4

#### Geography:

\*\*Geog 271R World Geography 3  
Geog 320 Natural Regions of North America 3

#### Geology:

Geol 325 Introduction to Remote Sensing 3  
Geol 401 Natural Resources and the Environment 3

#### Philosophy:

\*\*Phil 252N Environmental Ethics 4  
Phil 352 Ecology and Morality 3

#### Physics:

Phys 400 Science and Human Values 2

#### Political Science:

\*\*PS 205N Environmental Politics 3

#### Sociology:

Soc 310 Ecology and Society 4  
Soc 311 Ecology and Society Field School 8

#### Southwest:

\*\*SW 181N U.S./Southwest Environmental History 3

#### Thematic Studies:

TS2N 406 Water in the West 4

Relevant courses from a variety of disciplines may also be offered as 190, 390, 191, or 391 courses. See the Environmental Policy coordinator and/or advisors about current offerings that could be applied toward a minor in Environmental Policy. **PRIOR APPROVAL FROM COORDINATOR OF THE ENVIRONMENTAL POLICY 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 environmental policy coordinator for current listings.

### Auxiliary Requirements:

1. One course in statistics (choose from \*\*Psych 241Q, \*\*Math 201Q, \*\*BA 253Q).

2. Two laboratory science courses, which may be taken as part of the major.

# EXERCISE SCIENCE

Course listings for Exercise Science begin on page 146.

Department Chair - Paul W. Petersen  
 Professors - Paul W. Petersen  
 Associate Professors – Mary Ann Erickson, Melissa Knight-Maloney,  
 JoAnn C. Soignier  
 Assistant Professors - Robert W. Brooks, James S. Cross, Marcelyn  
 B. Jung, Carrie Meyer, Cathy M. Simbeck  
 Instructors – Wayne Barger, Andrew Vanous

## Departmental Mission

The Exercise Science Department aims to meet the needs of our graduates to function more efficiently as professionals in our discipline and to compete more favorably in today's job market by providing students with a variety of opportunities to develop a scientific knowledge base, engage in practical experiences, and 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, 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, 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. These options provide concentrated study in many of the disciplines associated with the Exercise Science major. The options are:

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

## EXERCISE SCIENCE – ATHLETIC TRAINING OPTION

The Commission on Accreditation of Allied Health Education Programs (CAAHEP) accredits the Athletic Training Education Program.

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

### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

ES 205	Emergency Response	2
ES 220	Clinical in Basic Athletic Training	1
ES 224	Basic Principals of Athletic Training	3
ES 240	Clinical in Manual Muscle Testing	1
**ES 242Q	Testing and Statistics	3
**ES 243S	Personal Health	3
ES 283	Evaluation of Athletic Injuries	3
ES 301W	Current Issues in Sport	
	OR	
ES 302W	Issues in Health and Well-Being	3
ES 320	Clinical in Manual Therapy	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	3
ES 375	Sport and Exercise Psychology	3
ES 385	Therapeutic Modalities	2
ES 387	Reconditioning of Athletic Injuries	3
ES 420	Capstone in Athletic Training	1
ES 424	Advanced Athletic Training	3
ES 425	Clinical in Medical Science	1
ES 480	Administration of Programs in Exercise Science	3
ES 495	Research Design and Development	1
ES 496	Senior Seminar	2

**Subtotal Specific Departmental Requirements 59**

Auxiliary Department Requirements:

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

**Subtotal Auxiliary Requirements** 9

**MAJOR TOTALS** 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.*

*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 Athletic Training Education Program at Fort Lewis College.
2. To establish equal student opportunity for acceptance by providing comparable background information on student applicants for the screening committee.
3. To serve as a contract for acceptance into the Athletic Training Education Program at Fort Lewis College.

### Prerequisites of Application

1. Proof of enrollment in ES 224 with a grade of 'B' or better.
2. Proof of enrollment in ES 220 with a grade of 'B' or better.
3. Proof of enrollment in ES 205 with a grade of 'B' or better.
4. Proof of enrollment in Anatomy (Bio 233) with a grade of 'C' or better.
5. A current minimum overall grade point average of 2.5.
6. An Exercise Science grade point average of 3.0.

### 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. Cover Sheet
2. Letter of Application
3. Resume
4. A Statement of Personal Philosophy
5. Letters of recommendation:
  - a. Two from FLC Faculty members:
    - One in the Exercise Science Department
    - One outside the Exercise Science Department
  - b. One from an adult professional outside FLC (immediate family excepted), someone who is familiar with your professional goals and your work ethic.
6. A completed Athlete Registration Packet (available in the training room).
7. A copy of all unofficial transcripts.

Once the application has been accepted, an interview with the screening committee will be conducted to discuss the application. Completed application is not a guarantee of admittance into the Athletic Training Education Program.

Upon acceptance into the Athletic Training Education Program, the student will be responsible for specific programmatic fees, which include individual liability insurance, approximately \$30 yearly; student nametag, one-time fee approximately \$10; Colorado Department of Education background check, one-time fee approximately \$40; 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 (Commission on Accreditation of Allied Health Education Programs [CAAHEP]).

All students admitted to the Athletic Training Educational 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 Educational 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 NATABOC certification exam or acceptance into the Athletic Training Educational Program.

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

- The mental capacity to assimilate, analyze, synthesize, 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 Educational Program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations; and
- 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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**ES 150R Sociocultural Foundations of Human Movement	3
**ES 242Q Testing and Statistics	3
ES 301W Current Issues in Sport	
OR	
ES 302W 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

#### Sub-Total 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

#### MAJOR TOTALS 47

#### Free Electives (variable)

#### TOTAL REQUIRED FOR GRADUATION 120

## EXERCISE SCIENCE – EXERCISE SCIENCE K-12 TEACHING OPTION

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

#### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**ES 150R Sociocultural Foundations of Human Movement	3
ES 224 Basic Principles of Athletic Training	3
**ES 242Q Testing and Statistics	3
**ES 243S 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 301W Current Issues in Sport OR	
ES 302W 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 Science	2

#### Subtotal Specific Departmental Requirements 49

#### Auxiliary Department Requirements:

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

#### Subtotal Auxiliary Requirements 9

#### MAJOR TOTALS 55

#### 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.*

If Teaching Licensure is desired students must also complete the appropriate K-12 teacher licensure program courses listed in the Teacher Education section. Teaching option is K-12 only.

\*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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**ES 150R Sociocultural Foundations of Human Movement	3
**ES 242Q Testing and Statistics	3
ES 301W 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

#### School of Business Requirements:

**BA 260S Legal Environment of Business	3
BA 301 Management and Organizational Behavior	4
BA 340 Marketing	4
BA 348 Public Relations	3
**Econ 266S Principles of Economics	4
Acc 225 Introduction to Financial Accounting	4

#### Subtotal School of Business Requirements 22

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

#### Auxiliary Department Requirements:

Psych 157 Introduction to Psychology	3
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#### Subtotal Auxiliary Requirements 3

#### MAJOR TOTALS 61-65

#### 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.*



## 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 about professional potential

## 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:

Bio 233 Human Anatomy	3
Bio 234 Human Physiology	3
Psyc 157 Introduction to Psychology	3
ES 185 Introduction to Coaching	2
ES 224 Basic Principles of Athletic Training	3
ES 225-231 Techniques of Coaching—2 courses	4
ES 353 Nutrition for Fitness and Sport	3
ES 360 Exercise Physiology	4
ES 375 Sport and Exercise Psychology	3
ES 389 Coaching Internship	2

**TOTAL REQUIREMENTS FOR COACHING MINOR 30**

## EXERCISE SCIENCE MINOR

### REQUIREMENTS FOR A MINOR IN EXERCISE SCIENCE:

Bio 233 Human Anatomy	3
Bio 234 Human Physiology	3
Psyc 157 Introduction to Psychology	3
**ES 150R 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**

## FORESTRY

*Course listings for Forestry begin on page 149.*

Department Chair – Sherell Kuss Byrd

Fort Lewis College has a formal transfer agreement with Colorado State University (CSU) whereby students can complete the first two years of study at Fort Lewis College and then transfer to the other institution for the last two years of professional training. Students then receive a bachelor of science degree in forestry or a related natural resources field from CSU. To transfer to CSU, a student must:

1. Be enrolled in the forestry program at Fort Lewis College for two years.
2. Have an overall grade point average of at least 2.00 (2.50 for international students).
3. Complete at least 60 credits in the forestry program at Fort Lewis College.
4. Qualify otherwise for admission to the College of Forestry and Natural Resources.

Students interested in transferring to CSU should consult with a member of the biology faculty early in their careers at Fort Lewis College to obtain specific course requirements and other information.



# GEOGRAPHY

Course Listings for Geography begin on page 150.

## GEOGRAPHIC INFORMATION SYSTEMS (GIS) MINOR

Program Coordinator - Scott White

### What is GIS?

Geographic Information Science (GIS) is a map-based computer decision support system. The field of geographic information science merges theoretical aspects of GIS across many different disciplines, such as archaeology, biology, agriculture, engineering, geology, 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 in the GIS courses gain valuable experience using industry-standard GIS software, as well as a familiarity with various modern field mapping procedures, including GPS (Global Positioning Systems). Surveying, remote sensing and computer science courses provide additional fundamental skills related to GIS. Completion of the minor will provide the student with skills and experience that are in great demand in today's workplace.

### REQUIREMENTS FOR A MINOR IN GEOGRAPHIC INFORMATION SYSTEMS (GIS):

#### 1. GIS Courses:

**Geog 250T Introduction to Computer Mapping and GIS	4
Geog 300 Intermediate GIS: Vector-Based Analysis	3
Geog 400 Advanced GIS: Raster-Based Analysis	3
Geog 499 Independent Study	1-3

**Subtotal Total GIS 11-13**

#### 2. Surveying Courses:

Engr 205 Surveying I	4
Engr 305 Surveying II	4
OR	
Geol 325 Introduction to Remote Sensing	4

**Subtotal Surveying/Remote Sensing 8**

#### 3. Computer Courses:

CSIS 106 Introduction to Programming in Visual Basic	4
OR	
CSIS 110 Introduction to Programming in Java	4
OR	
Engr 104 Computer Programming for Scientists and Engineers	3

**Subtotal Computer Science 3-4**

### TOTAL REQUIRED HOURS FOR GIS MINOR

22-25

Additional courses recommended as good electives but not counting toward the minor:

**Geol 107Nx Earth Systems Science	4
**Geol 113Tx Physical Geology	4
Geol 325 Introduction to Remote Sensing	4
Geol 405 Geologic Data Analysis and Modeling by Computer	4
Engr 103 Computer Aided Drafting	3
CSIS 230 Object-Oriented Programming in C++	4
CSIS 350 Database Management Systems	4
**Math 201Q, **BA 253Q, or **Psyc 241Q Statistics	4

# GEOSCIENCES

Course listings for Geology begin on page 151.

Department Chair - James D. Collier  
 Professor - James D. Collier, Ray Kenny  
 Associate Professors - Gary L. Gianniny, David A. Gonzales, Kimberly A. Hannula  
 Assistant Professors - Scott White

The 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.

The department also has course offerings in Geography and a minor in Geographic Information Systems (GIS). 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 GIS.

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 bachelors degrees in geology and environmental geology.

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

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.

## GEOLOGY – GEOLOGY OPTION

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

**General Education** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Geol 107Nx Earth Systems Science	
OR	
**Geol 113Tx 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 380W 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** **53**

Auxiliary Requirements:

**Chem 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
OR	
Geol 420 Introduction to Geochemistry	3
**Math 221Q Calculus I	4
One of the following:	
**Math 222Q, **Math 201Q, **BA 253Q, or **Psyc 241Q	4
Phys 201 College Physics	4
OR	
**Phys 217Tx Physics for Science and Engineering I	5

**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** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Geol 107Nx Earth Systems Science	
OR	
**Geol 113Tx Physical Geology	4
Geol 114 Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	4
**Geog 250T Intro Computer Mapping/GIS	4
Geol 323 Geomorphology	4
Geol 337 Structural Geology	4
Geol 361 Stratigraphy and Sedimentation	4
Geol 380W 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 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Math 221Q Calculus I	4

One of the following:

**Math 201Q, **Math 222Q, **BA 253Q, **Psyc 241Q, or Geol 405	4
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Phys 201 College Physics	4
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OR

**Phys 217Tx Physics for Science and Engineering I	5
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**Subtotal Auxiliary Requirements** 16-17

**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

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

**General Education** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Geol 107Nx Earth Systems Science	4
Geol 114 Historical Geology	4
**Geol 180N Oceanography	3
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	4
Geol 323 Geomorphology	4
Geol 333 Introductory Paleontology	3
Geol 332 Plate Tectonics	3
Geog 335 Weather and Climate	3
Geol 380W Technical Writing in Geology	3
Geol 401 Natural Resources and the Environment	3
Geol 496 Senior Seminar I – Research	1
Geol 497 Senior Seminar II – Thesis	2

**Subtotal Specific Departmental Requirements** 43

Auxiliary Requirements:

**Bio 112N Introduction to Biology:	4
**Chem 150Nx Fundamentals of Chemistry	4
**Math 110Q College Algebra	4
Phys 201 College Physics	4
**PhSc 206Tx Astronomy	4

Teacher Education Courses<sup>1</sup>:

**Ed 200R Intro to Ed in America	4
**Ed 210S Culture of Childhood and Youth	4
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy	4
Ed 495 Laboratory Experience and Seminar in the Secondary School	15

**Subtotal Auxiliary Requirements** 53

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** 120

<sup>1</sup>Please see Teacher Education section for Teacher Licensure 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.*

## PREPARATION FOR GRADUATE SCHOOL

The following additional courses are recommended for Geology majors who plan to go to 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 College Physics (non-Calculus) II

\*\*Math 222Q Calculus II

## GEOLOGY MINOR

### REQUIREMENTS FOR A MINOR IN GEOLOGY:

#### Specific Departmental Requirements:

**Geol 113Tx Physical Geology	4
OR	
**Gel 107Nx Earth Systems Science	4
Geol 114 Historical Geology	4
Geol 207 Mineralogy	3
Geol 210 Petrology	4
Upper division Geology electives	10
<b>TOTAL REQUIREMENTS FOR GEOLOGY MINOR</b>	<b>25</b>

## HEALTH CAREERS PROGRAM OPTIONS FOR STUDENTS INTERESTED IN HEALTH CAREERS

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 sciences, poses well-developed communication skills, and have had some experience (either volunteer or paid) in the health related profession of their choice. Hence, the pre-health-professions student should anticipate securing a thorough understanding in biology, chemistry, mathematics, physics, and English. At Fort Lewis College, degree options that fulfill a majority of the requirements for most health professions programs are the Cellular and Molecular or General Biology options in the Biology Department. Although most pre-health professions students have majored in biology or biochemistry, most professional schools will consider graduates in other major fields who have met the basic requirements for admission. The Medical College Aptitude Test (MCAT) that students must take prior to application to medical school emphasizes knowledge in cell biology; genetics; embryology; bacterial physiology; basic chemistry; human physiology; organic chemistry, particularly as it relates to biological molecules; and basic physics related to biological systems. Many of the other health-associated professions (i.e., veterinary medicine, physical therapy, pharmacy) also look for general knowledge in these areas, in addition to other more specific requirements.

Students considering careers in health professions should carefully plan their academic program very early in their undergraduate education. To assist the prospective pre-health professions student in selecting curricula that will satisfy the academic requirements of specific professional schools, Fort Lewis College has established a Pre-Health Advisory Committee. It is strongly recommended that the pre-health professions student, in addition to consulting his or her major advisor, select a member of this committee to serve as a personal academic advisor. Contact the biology or chemistry department chair for information on membership of this committee.



Students may pursue courses at Fort Lewis College that lead to a variety of health careers. Over the years, the Pre-Health Advisory Committee and Fort Lewis College have developed a very favorable rapport with the professional schools in Colorado, Arizona, New Mexico, and Utah. Many of our students have chosen to attend schools in the Four Corners states; many also have attended professional schools throughout the nation.

The most popular pre-professional programs at Fort Lewis College have been those in dentistry, medicine, medical technology, physical therapy, and veterinary medicine, but advising and academic planning also are available for programs in other allied health fields.

The purpose of the Pre-Health Advisory Committee is to guide and counsel all students in the health careers preparatory programs. This committee has prepared a Pre-professional Student handbook containing examples of suggested course schedules and curricula. Interested students may obtain a copy of the handbook by contacting any member of the Pre-Health Advisory Committee.

In addition to advising students in their preparatory programs, the Committee assists students with application procedures and in preparing for professional school admissions interviews. The Committee will, upon student request, provide recommendation documents to professional schools in accordance with the student's qualifications.

Please contact the chair of the biology or chemistry department for more information.

# HISTORY

*Course listings for History begin on page 152.*

Department Chair – Michael F. Fry  
 Professors – Andrew J. Gulliford, Neil McHugh  
 Associate Professor – Michael F. Fry  
 Assistant Professors – John Baranski, Michael Martin, Ellen Paul

The Department of History offers a wide variety of courses that 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. Two hundred (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. 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 Department of Teacher Education.

## 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.

Develop critical thinking—rigorous, fair-minded, nuanced.

Foster the research and writing skills that enable students to define a suitable topic, conduct thorough and resourceful searches for relevant information, and write up their findings in a clear, persuasive, and interesting fashion.

Cultivate in students an understanding of the complex epistemological challenges involved in doing history.

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

## Areas of Concentration

### African and Middle Eastern History

Choose from among:

\*\*Hist 140R Survey of African History I

\*\*Hist 141R Survey of African History II

Hist 305 Mesopotamian Myth/Religion

Hist 342 West Africa

Hist 343 Ancient Nile Valley

Hist 344 Northeast Africa

Hist 346 South Africa

Hist 348 Africans in the Americas

Hist 349 Islam in History

Hist 440 Advanced Studies in African History

Hist 446 Ancient Israel and Judah

### East Asian History

Choose from among:

\*\*Hist 170R Survey of East Asian Civilization I

\*\*Hist 171R Survey of East Asian Civilization II

Hist 351 U.S.-East Asian Relations

Hist 352 Modern China

Hist 354 Women Family & Gender in Chinese History

Hist 355 East Asian Popular Religion

Hist 356 History of Japan

Hist 450 Advanced Studies in East Asian History

### European History

Choose from among:

\*\*Hist 160R Survey of Western Civilization I

\*\*Hist 261S Western Civilization II, 1350 to Present

\*\*Hist 262S Tolerance & Persecution in the Middle Ages

\*\*Hist 263R Medieval Life in Modern Film and Literature

Hist 302 Ancient Rome

Hist 306 Ancient Women's Religions

Hist 308 Rise of Christianity

Hist 359 Medieval Europe

Hist 360 Renaissance Europe

Hist 361 Russia in Revolution to 1924

Hist 362 Soviet Union: Stalin to Gorbachev

Hist 363 Collapse of the Soviet Union

Hist 364 Germany: Roman Times to 1919

Hist 365 Germany, 1919 to Present

Hist 366 Hitler and the Holocaust

Hist 368 Medieval Women

Hist 382 Reformation Europe and Wars of Religion

Hist 465 Advanced Studies in European History

### Latin American History

Choose from among:

Hist 175 Introduction to Latin American History

\*\*Hist 270R Colonial Latin America

\*\*Hist 271S Latin America Since Independence

Hist 371 History of Central America

Hist 372 U.S.-Latin American Relations

Hist 373 History of Mexico

Hist 475 Advanced Studies in Latin American History

### United States History

Choose from among:

\*\*Hist 181N U.S./S.W. Environmental History

Hist 280 Survey of U.S. History, 1600-1877

\*\*Hist 281R Survey of U.S. History, 1877-Present

Hist 311 Colonial and Revolutionary America, 1492-1789

Hist 314 Inventing America, 1789-1850

Hist 315 Irish, Catholic, American

Hist 316 Civil War America

Hist 318 Emergence of Modern America, 1893-1939

Hist 322 Western American Mining

Hist 324 Colorado History

Hist 326 Baseball and the American Dream

Hist 332 Women in American History

Hist 333 America Since 1945

Hist 334 United States and Vietnam

Hist 337 Cultural and Intellectual History in the 20<sup>th</sup> Century

Hist 485 Advanced Studies in United States History

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY:

### General Education

35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Lower-Division History Requirements:

Survey sequence in the area of concentration 6

Three additional survey courses 9

Non-U.S. history majors must take at least one U.S. history survey course.

U.S. history majors must take three non-U.S. history survey courses.



### Upper-Division History Requirements:

Four courses at the 300- or 400-level in the area of concentration, at least one of which must be at the 400-level, other than Hist 496.

Three additional 300- or 400-level courses taken outside the concentration in a least two areas.

Hist 396W, Philosophy and Methods (4 credits). This course should be taken in the last term of the sophomore year or during the junior year.

Hist 496 Research Senior Seminar

**Subtotal Specific Departmental Requirements 44-48**

### Auxiliary Requirements:

Two courses in one modern language 6-8

Four courses selected among three of the following disciplines:

Anthropology (except Anth 350, 496, and 499)

Art 162R\*\*, 262R\*\*, 263R\*\*, 265, and 365

Economics (except Econ 201Q\*\*)

English 174R\*\*, 175R\*\*, 176R\*\*, 177R\*\*, 221R\*\*, 230R\*\*, 240R\*\*, 280R\*\*, 320, 341, 345, 346, 380, 430, 432, 461

Geography 271R\*\*

Philosophy (except Phil 496 and 499)

Political Science (except PS 350, 450, 496, and 499)

Psychology 157, 387, and 425

Sociology (except Soc 353, 496, and 499)

Southwest Studies 340, 341

**Subtotal Auxiliary Requirements 18-24**

**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.*

## HISTORY MINOR

### REQUIREMENTS FOR A MINOR IN HISTORY:

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**

# HUMANITIES

Coordinators:

Professor Gordon P. Cheesewright, and Associate Professor Kathryn Moller.

Humanities Advisors:

Associate Professor David L. Kozak, Anthropology; Associate Professor Susan M. Moss, Art; Professor Larry K. Hartsfield, or Associate Professor Jennifer A. Gehrman, English; Professor Rochelle G. Mann, Music; Associate Professor Dugald L. Owen, Philosophy; Professor Byron Dare, Political Science; Associate Professor Michael C. Anziano, Psychology; Associate Professor Dennis W. Lum, Sociology.

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. Humanities majors choosing to take the senior seminar within their primary concentration should consult carefully with their advisors to be sure they complete the departmental prerequisites for that course. As an alternative, students may choose to take an interdisciplinary senior seminar (GS 496). Students may not count courses used in their primary concentrations toward second majors in the disciplines of their primary concentrations. 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 choose concentrations within the humanities major are listed below. *Please note any restrictions, requirements, or exceptions indicated for each discipline.*

Anthropology: Anth 301 does not count

Art: Two art history courses and two studio courses required for Primary Concentration

Economics: Econ 201 does not count

English: Engl 215, 250, 251, 252, 304, 306, 350, 351, 352, 450, 451, 452, 453, and 483 do not count

History

Modern Language: In addition to all Modern Language courses, Ed 333 is allowed

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 301, 350, and 450 do not count

Psychology: No more than a total of six Psychology credits of off-campus coursework, innovative month, or independent study combined may be counted toward a primary or secondary concentration.

Sociology

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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

Primary Concentration (includes Writing course and 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 54**

#### Auxiliary Department Requirements:

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.*

Humanities majors with a primary concentration in psychology should note that Psych 296W is the writing course in this discipline. Prerequisites for Psych 296W are Psych 157 and Psych 241Q. The Senior Seminar, Psych 496, requires the following prerequisites: Psych 157, Psych 241Q, Psych 296 and Psych 300. 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.

## INTERDISCIPLINARY STUDIES

For information: see David Hayes, Director of Teacher Education

The Interdisciplinary Studies Major (ISM) is the major designed primarily for Fort Lewis College students who are seeking Colorado teaching licensure in either Early Childhood Education (preschool-3<sup>rd</sup> grade) or Elementary Education (K-6). ISM is structured to promote the acquisition of a broad range of content area knowledge in math, science, social sciences, and language arts. FLC students who are interested in this broad content preparation but are not interested in seeking a teaching licensure may also choose this major.

### **ISM includes two options: Early Childhood Education and Elementary Education**

Students choosing either option of the Interdisciplinary Studies major should choose an academic advisor in the Teacher Education Department and communicate whether they are following the Early Childhood Education or Elementary Education option. Students seeking teaching licensure should thoroughly read the section on the Teacher Education Licensure Program, beginning page 107, to determine which courses they will need to complete for licensure in the *General Education* and *Free Elective* categories shown in the below.

## INTERDISCIPLINARY STUDIES – EARLY CHILDHOOD EDUCATION (ECE) OPTION

### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ISM – EARLY CHILDHOOD EDUCATION (ECE) OPTION:

#### General Education Requirements 35-46

See page 30 for General Education requirements.

#### Major Course Requirements (45 credits minimum)

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Language Arts (18 credits)

##### *Required Courses:*

ED 317W Professional Writing for Educators	3
ED 327 Children's Literature	3
ED 335 Linguistics for Educators	3

*Elective Courses in Language Arts: a minimum of 9 credits chosen from the approved list of Language Arts elective courses<sup>1</sup>, including:*

**Engl 221R Classical Literature	4
**Engl 240R Survey of American Literature	4
**Engl 265S Semantics	4
**Engl 280R Literature of the Southwest	4
Engl 366 Teaching Writing	4
Engl 378 Young Adult Literature	4
Engl 380 Native American Literature: Topics	4
Engl 461 History of the English Language	4
Soc 376 Language and Social Behavior	4
Thea 323 Children's Theatre	4

Note: Any one of the Colorado Community College Courses Lit 115, 201, 202, 211, 221 will satisfy one course requirement in this content group when transferred to Fort Lewis College.

**Language Arts subtotal Minimum 18**

Mathematics (4 credits)

One of the following: Math 110Q or Math 201Q or Psyc 241Q or BA 253Q	4
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Science (3 credits)

*Elective Courses in Science: a minimum of 3 credits chosen from the approved list of Science elective courses<sup>1</sup>, including:*

**Bio 105T Issues in Genetic Engineering	4
**Bio 110Tx Modern Biological Issues	4
**Bio 141N Global Ecological Issues	3
**Bio 250Nx Ecology of the Southwest	4
**Chem 123T Chemistry for Consumers	3
**Chem 125N Environmental Chemistry	4
**Geol 107Nx Earth Systems Science	4
**Geol 113Tx Physical Geology	4
**Geol 150N Geology of the Southwest	3
Geol 401 Natural Resources & the Environment	3
**Phsc 105T The Physical Sciences	3
**Phsc 106Tx The Physical Sciences with lab	4
**Phsc 115Nx Environmental Physical Science with Lab	4
**Phsc 205T Introductory Astronomy	3
**Phsc 206Tx Introductory Astronomy with lab	4

**Note:** The Colorado Community College course Bio 111 will satisfy one course requirement in this content group when transferred to Fort Lewis College.

**Science subtotal 3-4**

Social Studies (20 credits)

*Required Courses:*

Psyc 254 Life Span Human Development	4
Ed 353 Child Growth & Development (3 cr) <u>or</u> Psyc 354 (Topics in Child Psychology (4 cr))	3-4

*Elective Courses in Social Studies: a minimum of 12-13 credits chosen from the approved list Social Studies elective courses<sup>1</sup>, including:*

**Econ 170S Current Economic Issues	4
Econ 310 Economic History of United States	4
**Geog 271R World and Regional Geography	4
**Hist 160R Survey of Western Civilization I	3
**Hist 181N US/SW History	3
**Hist 261S Western Civilization II, 1350-Present	3
Hist 280 Survey of U.S. History 1600-1865	3
**Hist 281R Survey of U.S. History 1865 – Present	3
Hist 320 Western/SW American History	3
Hist 324 Colorado History	3
Hist 333 America Since 1945	3
**PS 110S U.S. National Government	3
**PS 120S State and Local Government	4
PS 340 Constitutional Law: Bill of Rights	4
SW 323 SW Indian History	3

**Social Studies subtotal Minimum 20**

Other Major Course Requirement (2 cr)

GS 496 Interdisciplinary Senior Seminar	2
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**Subtotal Major Course Requirements 47-48**

**Free Electives (variable)**

**NOTE:** Students seeking ECE teaching licensure will complete the required teacher education licensure courses as their electives (36 credits). See Teacher Education, page 107.

<sup>1</sup>Additional elective courses may have been approved; see your Teacher Education advisor for more information.

**TOTAL REQUIRED FOR GRADUATION 120**

## INTERDISCIPLINARY STUDIES – ELEMENTARY EDUCATION OPTION

### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN ISM – EARLY ELEMENTARY EDUCATION OPTION:

**General Education Requirements 35-46**

See page 30 for General Education requirements.

**Major Course Requirements (44 credits minimum)**

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Language Arts (12 credits)

*Required Courses:*

ED 317 Professional Writing for Educators	3
ED 327 Children's Literature	3
ED 335 Linguistics for Educators	3

*Elective Courses in Language Arts: a minimum of 3 credits chosen from the approved list of Language Arts elective courses<sup>1</sup>, including:*

**Engl 221R Classical Literature	4
**Engl 240R Survey of American Literature	4
**Engl 265S Semantics	4
**Engl 280R Literature of the Southwest	4
Engl 366 Teaching Writing	4
Engl 378 Young Adult Literature	4
Engl 380 Native American Literature: Topics	4
Engl 461 History of the English Language	4
Soc 376 Language and Social Behavior	4
Thea 323 Children's Theatre	4

**Note:** Any one of the Colorado Community College Courses Lit 115, 201, 202, 211, 221 will satisfy one course requirement in this content group when transferred to Fort Lewis College.

**Language Arts subtotal Minimum 12**

Mathematics (10 credits):Required Course:

Math 110Q College Algebra 4

*Elective Courses in Math: a minimum of 6 credits chosen from the approved list Math elective courses<sup>1</sup>, including:*

Math 121Q Pre-Calculus 4

Math 201Q Elementary Statistics 4

Math 215Q: Math for Elementary I (highly recommended) 3

Math 318Q: Math for Elementary II (highly recommended) 3

**Math subtotal Minimum 10**Science (12 credits, must include a lab course and selections must be from at least two disciplines)*Elective Courses in Science: a minimum of 12 credits chosen from the approved list of Science elective courses<sup>1</sup>, including:*

\*\*Bio 105T Issues in Genetic Engineering 4

\*\*Bio 110Tx Modern Biological Issues 4

\*\*Bio 141N Global Ecological Issues 3

\*\*Bio 250Nx Ecology of the Southwest 4

\*\*Chem 123T Chemistry for Consumers 3

\*\*Chem 125N Environmental Chemistry 4

\*\*Geol 107Nx Earth Systems Science 4

\*\*Geol 113Tx Physical Geology 4

\*\*Geol 150N Geology of the Southwest 3

Geol 401 Natural Resources &amp; the Environment 3

\*\*Phsc 105T The Physical Sciences 3

\*\*Phsc 106Tx The Physical Sciences with lab 4

\*\*Phsc 115Nx Environmental Physical Science with Lab 4

\*\*Phsc 205T Introductory Astronomy 3

\*\*Phsc 206Tx Introductory Astronomy with lab 4

**Note:** The Colorado Community College course Bio 111 will satisfy one course requirement in this content group when transferred to Fort Lewis College.**Science subtotal Minimum 12**Social Studies (10 credits)Required Course:

Psyc 254 Life Span Human Development 4

*Elective Courses in Social Studies: a minimum of 6 credits chosen from the approved list Social Studies elective courses<sup>1</sup>, including (an American History course is recommended):*

\*\*Econ 170S Current Economic Issues 4

Econ 310 Economic History of United States 4

\*\*Geog 271R World and Regional Geography 4

\*\*Hist 160R Survey of Western Civilization I 3

\*\*Hist 181N US/SW History 3

\*\*Hist 261S Western Civilization II, 1350-Present 3

Hist 280 Survey of U.S. History 1600-1865 3

\*\*Hist 281R Survey of U.S. History 1865 – Present 3

Hist 320 Western/SW American History 3

Hist 324 Colorado History 3

Hist 333 America Since 1945 4

\*\*PS 110S U.S. National Government 3

\*\*PS 120S State and Local Government 4

PS 340 Constitutional Law: Bill of Rights 4

SW 323 SW Indian History 3

**Subtotal Social Studies Minimum 10**Other Major Course Requirement (2 cr)

GS 496 Interdisciplinary Senior Seminar 2

**Free Electives (variable)****NOTE:** Students seeking Elementary Education teaching licensure will complete the required teacher education licensure courses as their electives (36 credits). See Teacher Education, page 107.<sup>1</sup>Additional elective courses may have been approved; see your Teacher Education advisor for more information.**Subtotal Major Course Requirements 46****TOTAL REQUIRED FOR GRADUATION 120**



# INTERNATIONAL STUDIES PROGRAM

Coordinator - Jan E. Sallinger, Associate Professor

The intent of this curricular program is to offer the student an interdisciplinary introduction to the multifaceted nature of international and inter-state relations. Students wishing to complete this major must follow the format for a student-constructed major. The student-constructed major form may be obtained from the Academic Advising Center, Miller Student Center 140. Shown below is a suggested model program, but it can be modified to meet individual needs. The core courses in the student-constructed international studies major are appropriate courses in history, political science, and anthropology of a given region or several geographical regions. In addition, courses proposed for the major should reflect sufficient exposure to contemporary cultures and societies from the viewpoints of language, business, economics, and sociology. Typically, the student is expected to either stipulate a geographical region of concentration having a coherence in terms of specific course selection from those disciplines that offer courses relevant to the geographical orientation (for example a European concentration will have appropriate courses from history, modern language, political science, etc.), or design a broader, non-region specific, worldview emphasis. Successful completion of a well-designed international studies major will give the student a broader, more analytical understanding of the international community in terms of bilateral and multilateral relations that affect the decisions of the individual and their governments.

## EXPECTATIONS

Regardless of the specific orientation, each student is expected to choose courses from among the following disciplines.

### General Education

**35-46**

See page 30 for General Education Requirements.

**NOTE:** 12-16 credits of TS1 courses may also count toward major requirements.

### Language

Listed below are the possible geographical designations with the appropriate language courses. The language section includes a total of 12 or 16 hours of intermediate and advanced work in a single language. There is an exception in the Asian field because of limited course offerings.

#### Europe

6 hours of intermediate German, or 8 hours of French or Spanish  
6 hours of upper-level German, or 8 hours of French or Spanish

#### Latin America

8 hours of intermediate Spanish  
8 hours of upper-level Spanish

#### Asia

6 hours of beginning Japanese  
6 hours of cultural Japanese

#### Africa

8 hours of intermediate French  
8 hours of upper-division French

### Total Language

**12-16**

### Geography

Each student in International Studies should take:  
\*\*Geog 271R World Geography 4

### History

The listing of courses for the history department is by geographical area and course title. The student is encouraged to select the appropriate courses relating to the specific focus of the major. Moreover, it is understood that the courses selected from this discipline are contemporary in scope. Each student should select two or more courses from among those listed below in order to satisfy this component of the major. This applies to all students in the program.

Hist 342	West Africa	4
Hist 344	Northeast Africa	4
Hist 346	South Africa	4
Hist 349	Islam in History	4
Hist 351	U.S.-East Asian Relations	4
Hist 352	Modern China	4
Hist 362	Soviet Union: Stalin to Gorbachev	4
Hist 363	Collapse of the Soviet Union	3
Hist 365	Germany, 1919 to Present	4
Hist 371	History of Central America	4
Hist 372	United States-Latin American Relations	4
Hist 373	History of Mexico	4
Hist 440	Advanced Studies in African History	3
Hist 450	Advanced Studies in East Asian History	3
Hist 465	Advanced Studies in European History	3
Hist 475	Advanced Studies in Latin American History	3

### Political Science

Each student should select at least three courses from the political science area regardless of geographical designation. All students are strongly urged to take PS 280S and PS 320.

**PS 205N	Environmental Politics	3
**PS 280S	Introduction to Comparative Politics	4
PS 300	Religion and Politics	4
PS 320	International Politics	4
PS 322	International Political Economics	4
PS 325	Middle East Politics	4
PS 337	U.S. Foreign Policy	4
PS 360	Revolution and the Modern World	3
PS 365	Women and Development	3
PS 370	Latin American Politics	4
PS 372	African Politics and Development	4
PS 374	Pacific Rim Politics and Issues	4
PS 380	Comparative Communist Systems	4
PS 385	Twentieth-Century Socialisms	3

### Business

Each student is urged to take one of the following as part of the program in International Studies.

**BA 271R	Principles of International Business	3
BA 389	International Finance	4
BA 375	Studies in European Business (Semester Abroad)	3-18
BA 372W	Global Business Seminar	4

**Economics**

Each student, regardless of specific area of focus, is urged to select from the following courses offered by the Department of Economics.

Econ 370 Topics in International Economics	1-6
Econ 371 International Economics	4
Econ 410 Economics, A Radical Perspective	4

**Anthropology**

Each student in International Studies should take \*\*Anth 210R and \*\*Anth 217R regardless of geographical area of concentration.

**Anth 210R Intro to Cultural and Social Anthropology	4
**Anth 217R Cultural Images of Women and Men	4

Each student is urged to select one of the following, and where appropriate, the course should be in accord with the area of concentration selected:

Anth 350 Ethnology of Mesoamerica	4
Anth 351 Ethnology of Andean South America	4
Anth 353 Ethnology of India	4
Anth 355 Anthropology of Gender	4
Anth 356 Ecological Anthropology	4
Anth 371 Ethnology of Amazonian South America	3

**Sociology/Human Services**

Each student, regardless of geographical area of concentration, is urged to take the following courses in Sociology/Human Services.

Soc 301 Comparative Societies	4
Soc 376 Language and Social Behavior	4

**Writing Course**

Writing course in appropriate discipline/department	2-4
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**Independent Study or Senior Seminar** in appropriate discipline/department

2-4

A minimum of 44 semester credits must apply toward the major, including at least two credits of 496 or 499. Forty percent of the major courses must be numbered 300 or above.

**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.*

**JAPANESE**

*See Modern Languages on page 86. See course listings on page 158.*

**LATIN**

*See Modern Languages on page 86. See course listings on page 158.*

**MATHEMATICS**

*Course listings for Mathematics begin on page 156.*

Department Chair – Deborah L. Berrier  
Associate Professors - Deborah L. Berrier, Pamela K. Smith  
Assistant Professor - Carl F. Lienert, Vesta Coufal  
Visiting Instructor - Dorothy D. McShan

**MATHEMATICS MAJOR**

Society is increasingly dependent upon solving complex problems of a numerical, quantitative, and statistical nature. These all require logical thought. The Mathematics Department major is a solid introduction to all aspects of mathematics. It helps students prepare for the exciting challenges of today and tomorrow.

Many graduates have chosen to be teachers in the public schools. Others have chosen graduate study or careers in such fields as computer science, statistics, engineering, business, biometrics, the actuarial sciences, and other areas involving mathematics. Additionally, for those students who are undecided about a career, a mathematics major proves an excellent background in critical thinking and problem-solving.

**TEACHER EDUCATION**

Those students seeking certification to teach in a senior high school must complete all the general requirements for the math major, while including the following specific courses: Math 310Q, 325, and 342Q.

To obtain all the requirements for teaching licensure, please contact the Department of Teacher Education.

**MATHEMATICS MINOR**

A minor is available in mathematics and requirements are listed at the end of this section.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS:

**General Education** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Math 201Q Elementary Statistics	4
**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
**Math 223Q Calculus III	4
**Math 301W Foundations for Advanced Mathematics	4
**Math 311Q Matrices and Linear Algebra	4
**Math 327Q Differential Equations	4
**Math 387Q Algebraic Structures	4
**Math 424Q Advanced Calculus	4
Three additional Math courses above 300, except 318Q	9-12
Math 496 Mathematics Senior Seminar	3
<b>Subtotal Specific Departmental Requirements</b>	<b>48-51</b>

Auxiliary Department Requirements:

CSIS 106 Introduction to Programming in Visual Basic OR	
CSIS 110 Introduction to Programming (Java)	4
<b>Subtotal Auxiliary Requirements</b>	<b>4</b>

**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.*

## MATHEMATICS MINOR

### REQUIREMENTS FOR A MINOR IN MATHEMATICS:

Mathematics Minor:	
**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
Three additional mathematics courses at upper-division level. One course must emphasize the concept of proof (e.g., Math 301Q, 305Q, or 316Q)	10-12
<b>TOTAL REQUIREMENTS FOR MATHEMATICS MINOR</b>	<b>18-20</b>

# MODERN LANGUAGES

*Course listings for all Modern Languages begin on page 158.*

Department Chair – Kathleen Aguilar  
 Professors - Lourdes M. Carrasco, Ingrid W. Ryan, Patricia Sanchez-Flavin  
 Assistant Professor - Kathleen Aguilar  
 Visiting Instructors - Isabelle Pertant, Ellen Hartsfield, Amy Sellin

The mission of the Department of Modern Language is to promote knowledge and appreciation of various languages, cultures, and literatures. The Department offers French, German, Japanese, Latin, Navajo, and Spanish. A major in Spanish is available and student self-constructed majors are available in French and German as well. Minors are available in Spanish, French, and German. For additional information on specific requirements for the minors, consult the catalog index.

## 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 fully 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 Modern Languages Department or the Records Office.

## STUDY ABROAD

Several programs in many parts of the world are available to students. For more information contact the International Program Office or a faculty member of the Department of Modern Languages.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH:

To earn a major in Spanish, a student is required to complete the equivalent of 40 credits of coursework in the language. 100-level courses do not count toward the major. A student with previous study may be placed at the appropriate level. Please refer to the Department web page for additional information.

A student electing Spanish as a major will devise a plan of study in consultation with a member of the Spanish faculty. Students intending to acquire a teaching credential at the elementary or secondary level should consult with an advisor in the School of Education. At the elementary level, a bilingual/bicultural concentration is offered.

**General Education** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

ML 215 Intermediate Spanish I	4
**ML 216R Intermediate Spanish II	4
ML 319 Advanced Spanish Conversation and Composition I	4
ML 320W Advanced Spanish Conversation and Composition II	4

Choose one of the two following sequences:

ML 336 Survey of Spanish Literature	4
AND	
ML 345 Hispanic Culture and Civilization I	4
OR	
ML 337 Survey of Spanish American Literature	4
AND	
ML 346 Hispanic Culture and Civilization II	4
ML 496 Senior Seminar in Spanish	4

### Other Departmental Requirements:

12 credits to be taken from 300- or 400-level Spanish courses 12

**Total** 40

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** 120

## FRENCH MINOR

### REQUIREMENTS FOR A MINOR IN FRENCH

French:	
ML 147 Elementary French I	4
ML 148 Elementary French II	4
ML 247R Intermediate French I	3
ML 248 Intermediate French II	3
300- or 400-level French courses	9

**TOTAL REQUIRED FOR FRENCH MINOR** 23

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 [Academic Programs](#)).

For French, German, Japanese, Latin, and Navajo, see Modern Language course listings, page 158.

## GERMAN MINOR

### REQUIREMENTS FOR A MINOR IN GERMAN:

German:	
ML 123 Elementary German I	4
ML 124 Elementary German II	4
ML 223 Intermediate German I	3
**ML 224R 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 [Academic Programs](#)).

For French, German, Japanese, Latin, and Navajo, see Modern Language course listings, page 158.

## SPANISH MINOR

### REQUIREMENTS FOR A MINOR IN SPANISH:

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.



# MUSIC

Course listings for Music begin on page 160.

Department Chair - Rochelle Mann

Professors - Linda S. Mack, and Rochelle G. Mann

Associate Professors - Timothy P. Farrell, John C. Pennington,

Katherine D. Jetter Tischhauser and Mark A. Walters

Assistant Professors - Lisa Campi, Mikylah Myers McTeer

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 minors in music.

For the student interested in majoring in music, the department offers a comprehensive curriculum. Three different courses of study, each leading to the Bachelor of Arts degree in Music, allow concentrations in General Music Studies, Performance, or Music Education.

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 trimester they are enrolled in MU229 (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.

## General Music Studies

The General Music Studies concentration is designed for students interested in a liberal arts education with an emphasis in music.

## Music Performance

The Music Performance concentration is designed for students who have demonstrated a strong commitment to music performance and who wish to use some of their elective hours 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.

## Music Education

The Music Education concentration is designed for students planning to teach music in the public schools.

## 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 15) 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, with a grade of A or B, of this sequence, from the placement course through 204, also satisfies the piano Proficiency requirement.

#### Music Literature Requirement:

Concert Attendance. Attendance at scheduled recitals and concerts and at regularly scheduled listening labs required each semester.

#### Major Ensemble Requirement:

At least 6 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 Education concentration – 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 Concentration). The following guidelines pertain to the Performance Concentration: Students must obtain music faculty approval before declaring the Performance Concentration and subsequently register for 2 credits of applied music on 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 for the Instrumental Performance Concentration. The voice specialization within the Performance concentration requires three semesters of German or French, including at least one semester of each language.



Common 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 415W	Literature and Conversation: Writing About Music	3
Mu 423	Orchestration	1
Mu 496	Senior Seminar	2
<b>Total Common Requirements</b>		<b>36</b>

## MUSIC – GENERAL MUSIC STUDIES OPTION

**General Education** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

**Common Requirements (listed above)** 36

Special Departmental Requirements:

Music Literature/Concert Attendance	0
Major Ensemble	8
Applied Music	8

**Subtotal** 16

**Total** 52

Additional Requirements:

Students must present a half recital of at least thirty minutes duration during the junior or senior year.

**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.

## General Music Studies Suggested Course Sequence

**Semester 1 (Fall)**

MU128		
Theory/Musicianship I	5	
MU109 Applied Music	1	
MU105 or 110 or 117		
Ensemble	1	
Concert Attendance	0	
Comp 150	4	
Lib 150	1	
ES 100	1	
TS1 – N or T	3-4	
MU103A Piano I (if needed)	1	

**Semester 3 (Fall)**

MU228		
Theory/Musicianship III	5	
MU209 Applied Music	1	
MU105 or 110 or 117		
Ensemble	1	
Concert Attendance	0	
TS1 R or S	3-4	
MU203A Piano III (if needed)	1	
PE ACT	1	

**Semester 5 (Fall)**

MU309 Applied Music	1	
MU305 or 310 or 317		
Ensemble	1	
Concert Attendance	0	
TS2 N, T, R or S	3-4	
TS2 N, T, R or S	3-4	
MU349 Conducting I <u>or</u>	2	
MU331 Music History I	3	
Upper Division Electives		

**Semester 7 (Fall)**

MU409 Applied Music	1	
MU305 or 310 or 317		
Ensemble	1	
Concert Attendance	0	
MU349 Conducting I <u>or</u>	2	
MU331 Music History I		
TS2 N, T, R or S	3	
MU423 Orchestration	3-4	
Upper Division Electives	1	

**Semester 2 (Winter)**

MU129		
Theory/Musicianship II	5	
MU109 Applied Music	1	
MU105 or 110 or 117		
Ensemble	1	
Concert Attendance	0	
TS1 N or T w/lab	3-4	
TS1 Q	3	
PE ACT	1	
MU104A Piano II (if needed)	1	

**Semester 4 (Winter)**

MU229		
Theory/Musicianship IV	5	
MU209 Applied Music	1	
MU105 or 110 or 117		
Ensemble	1	
Concert Attendance	0	
TS1 R or S	3-4	
MU204A Piano IV (if needed)	1	
Electives		

**Semester 6 (Winter)**

MU309 Applied Music	1	
MU305 or 310 or 317		
Ensemble	1	
Concert Attendance	0	
MU350 Conducting II <u>or</u>	2	
MU332 Music History II	3	
MU415W Writing About Music	3	
Upper Division Electives		
TS2 N, T, R or S	3-4	

**Semester 8 (Winter)**

MU409 Applied Music	1	
MU305 or 310 or 317		
Ensemble	1	
Concert Attendance	0	
MU350 Conducting II <u>or</u>	2	
MU332 Music History II	3	
MU496 Senior Seminar(Recital)	2	
Upper Division Electives		

## MUSIC – MUSIC PERFORMANCE OPTION

**General Education** **35-46**

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

**Common Requirements (listed above)** **36**

Special Departmental Requirements:

Music Literature/Concert Attendance	0
Major Ensemble	8
Applied Music	16

**Subtotal Specific Departmental** **24**

**Total** **60**

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.

**Free Electives (variable)**

**TOTAL REQUIRED FOR GRADUATION** **120**

## Music Performance Suggested Course Sequence

<b>Semester 1 (Fall)</b>		<b>Semester 2 (Winter)</b>	
MU128		MU129	
Theory/Musicianship I	5	Theory/Musicianship II	5
MU109 Applied Music	2	MU109 Applied Music	2
MU105 or 110 or 117		MU105 or 110 or 117	
Ensemble	1	Ensemble	1
Concert Attendance	0	Concert Attendance	0
Comp 150	4	TS1 N or T w/lab	3-4
Lib 150	1	TS1 Q	3
ES 100	1	PE ACT	1
TS1 – N or T	3-4	MU104A Piano II (if needed)	1
MU 103 Piano I (if needed)	1	Vocal Diction- Voice Majors only	
		<b>Semester 4 (Winter)</b>	
		MU229	
<b>Semester 3 (Fall)</b>		Theory/Musicianship IV	5
MU228		MU209 Applied Music	2
Theory/Musicianship III	5	MU105 or 110 or 117	
MU209 Applied Music	2	Ensemble	1
MU105 or 110 or 117		Concert Attendance	0
Ensemble	1	TS1 R or S	3-4
Concert Attendance	0	MU204A Piano IV (if needed)	1
TS1 R or S	3-4	Electives	
MU203A Piano III (if needed)	1	<b>Semester 6 (Winter)</b>	
PE ACT	1	MU309 Applied Music	2
		MU305 or 310 or 317	
<b>Semester 5 (Fall)</b>		Ensemble	1
MU309 Applied Music	2	Concert Attendance	0
MU305 or 310 or 317		MU350 Conducting II <u>or</u>	2
Ensemble	1	MU332 Music History II	3
Concert Attendance	0	MU415W Writing About Music	3
TS2 N, T, R or S	3-4	Junior Recital	0
TS2 N, T, R or S	3-4	TS2 N, T, R or S	3-4
MU349 Conducting I <u>or</u>	2	ML Modern Language	
MU331 Music History I	3	<b>Semester 8 (Winter)</b>	
ML Modern Language		MU409 Applied Music	2
		MU305 or 310 or 317	
<b>Semester 7 (Fall)</b>		Ensemble	1
MU409 Applied Music	2	Concert Attendance	0
MU305 or 310 or 317		MU350 Conducting II <u>or</u>	2
Ensemble	1	MU332 Music History II	3
Concert Attendance	0	MU496 Senior Seminar (Recital)	2
MU349 Conducting I <u>or</u>	2	Upper Division Electives	
MU331 Music History I	3		
MU423 Orchestration	1		
TS2 N, T, R or S	3-4		
ML Modern Language			
Upper Division Electives			

## MUSIC – MUSIC EDUCATION OPTION

The required classes are in compliance with the Teacher Certification Act of 1975, which outlines three areas of specialization: General Music, Instrumental Music, and Choral Music. Those who elect piano as their primary applied area and who do not have a secondary instrumental area should select the choral music specialization.

### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Common Requirements (listed above) 36

Mu 415W Literature and Conversation: Writing About Music 3

#### Additional 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 314	Methods and Principles of Teaching Vocal Music	3
Mu 315	Methods and Principles of Teaching Instrumental Music	3
Mu 316	Music in the Elementary School	3

### Subtotal 14

#### Special Departmental Requirements:

Music Literature/Concert Attendance	0
Major Ensemble	7
Applied Music	7

### Subtotal 14

### Total 64

#### Additional Requirements:

Students must complete the following courses for teacher licensure. Consult the Teacher Education Department for specific requirements. All Music Majors must also have an advisor from the Teacher Education Department.

**Ed 200R	Introduction to Education in America	4
**Ed 210S	Culture of Childhood and Youth	4
Ed 421	Individualized Instruction in a Pluralistic Society	6
Ed 494 and 495	Laboratory Experience	15
(7 credits Ed 494-Elementary/8 credits Ed 495-Secondary)		

### Subtotal 29

Students must present a half recital of at least 30 minutes duration during the junior or senior year.

### MINIMUM REQUIRED FOR GRADUATION 128

\*\*Students using Ed 200 & ED 210 toward Gen Ed may complete in 120 credits\*\*

## Music Education Suggested Course Sequence

Semester 1 (Fall)		Semester 2 (Winter)	
MU128		MU129	
Theory/Musicianship I	5	Theory/Musicianship II	5
MU109 Applied Music	1	MU109 Applied Music	1
MU105 or 110 or 117		MU105 or 110 or 117	
Ensemble	1	Ensemble	1
Concert Attendance	0	Concert Attendance	0
Comp 150	4	MU103 B,C,D,E or F	1
Lib 150	1	TS1 N or T w/lab	3-4
ES 100	1	TS1 Q	3
TS1 – N or T	3-4	PE ACT	1
MU103A Piano I (if needed)	1	MU104A Piano II (if needed)	1
Semester 3 (Fall)		Semester 4 (Winter)	
Apply to Teacher Ed Program		MU229	
MU228		Theory/Musicianship IV	5
Theory/Musicianship III	5	MU209 Applied Music	1
MU209 Applied Music	1	MU105 or 110 or 117	
MU105 or 110 or 117		Ensemble	1
Ensemble	1	Concert Attendance	0
Concert Attendance	0	TS1 Ed 210S	4
TS1 Ed 200R	4	MU350 Conducting II <u>or</u>	2
MU349 Conducting I <u>or</u>	2	MU332 Music History II	3
MU331 Music History I	3	MU103 B, C, D, E or F	1
MU103 B, C, D, E or F	1	MU204A Piano IV (if needed)	1
MU203A Piano III (if needed)	1		
PE ACT	1	Semester 6 (Winter)	
Semester 5 (Fall)		MU309 Applied Music	1
MU309 Applied Music	1	MU305 or 310 or 317	
MU305 or 310 or 317		Ensemble	1
Ensemble	1	Concert Attendance	0
Concert Attendance	0	MU350 Conducting II <u>or</u>	2
TS2 N, T, R or S	3-4	MU332 Music History II	3
MU349 Conducting I <u>or</u>	2	MU103 B, C, D, E or F	1
MU331 Music History I	3	MU316 Music in the	
MU314 Choral Methods	3	Elementary School	3
<u>or</u>		MU415W Writing About	
MU315 Instrumental		Music	3
Methods	3	TS2 N, T, R or S	3-4
MU103 B, C, D, E or F	1	TS2 N, T, R or S	3-4
MU423 Orchestration- if offered	1	Semester Seven (Fall)	
Semester Seven (Fall)		Semester Eight (Winter)	
Take P.L.A.C.E Exam		Ed 494 and Ed 495	
MU409 Applied Music	1	Student Teaching	15
MU305 or 310 or 317			
Ensemble	1		
Concert Attendance	0		
MU314 Choral Methods	3		
<u>or</u>			
MU315 Instrumental			
Methods	3		
MU423 Orchestration	1		
MU496 Senior			
Seminar(Recital)	2		
TS2 N, T, R or S	3-4		
Ed 421 Indiv. Instr in a			
Pluralistic Society	6		



## MUSIC MINOR

### REQUIREMENTS FOR A MINOR IN MUSIC:

1. A minimum of 19 credits of music with at least six 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

Interested students should consult with their applied professor or the department chair.



## PHILOSOPHY

*Course listings for Philosophy begin on page 165.*

Department Chair - Dugald Owen  
 Professor - Reyes R. Garcia  
 Associate Professor - Dugald L. Owen  
 Assistant Professor - 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 its majors, 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

35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Major Requirements:

**Phil 251S Moral Philosophy	4
OR	
Phil 264 Social and Political Philosophy	4
Phil 271 Logic	4
**Phil 274R Ancient and Medieval Philosophy	4
Phil 305W Writing Philosophy	4
Phil 379 Modern Philosophy	4
Phil 380 Nineteenth Century Philosophy	4
Phil 496 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 credited toward this requirement.

<b>Subtotal Other Departmental Requirements</b>	<b>6-8</b>
<b>Total Requirements</b>	<b>34-36</b>
<u>Auxiliary Requirements from Other Departments:</u>	
Two semesters of one modern language	6-8
<b>Free Electives (variable)</b>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

**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:

**Phil 141S Introduction to Philosophy OR	4
**Phil 274R Ancient and Medieval Philosophy	4
**Phil 251S Moral Philosophy	4
Phil 271 Logic	4
Phil 379 Modern Philosophy OR	4
Phil 380 Nineteenth Century Philosophy	4
At least one other 4-credit philosophy course numbered 300 or above.	4
<b>TOTAL REQUIREMENTS FOR PHILOSOPHY MINOR</b>	<b>20</b>

## PHYSICAL EDUCATION

*Course listings for Physical Education (Exercise Science) begin on page 146.*

## PHYSICAL SCIENCE

*Course listings for Physical Science begin on page 167.*

# PHYSICS

*Course listings for Physics begin on page 168.*

Department Chair – Gerald Crawford  
Professors - Gerald Crawford, Martha Iverson  
Assistant Professors – Charles Hakes, Jeffrey Loats, 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 such areas as energy science, engineering, and electronics; 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, Engineering-Physics and preparation for secondary education teachers in physics. A minor in physics is available for students majoring in other disciplines. Requirements for each option and the minor 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** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q 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 217Tx, 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 380 Advanced Lab I	1
Phys 381 Advanced Lab II	1
Phys 397W Writing in Physics	3
Phys 400 Science and Human Values	2
Phys 420 Introductory Quantum Mechanics I	3
Phys 496 Senior Seminar	2

**Subtotal Specific Departmental Requirements** 32

Additional Departmental Requirements:

Six additional credits to be chosen from:

Phys 301 Introduction to Electronics	3
Phys 340 Optics	4
Phys 370 Heat and Thermodynamics	3
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 150Nx Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
**Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Math 327Q Differential Equations	4
Engr 104 Computer Prog for Scientists and Engineers	3
Engr 201 Electric Networks I	4
Engr 202 Electric Networks II*	4

**Subtotal Auxiliary Requirements** 35

\*Can substitute Phys 301.

Recommended Additional Math – Choose one:

**Math 311Q Matrices and Linear Algebra	
**Math 320Q Numerical Analysis	

Other math courses numbered 300 or 400 as recommended by a physics advisor.

**Major Totals** 73

**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** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements in Physics:

**Phys 217Tx Physics for Science and Engineering I	5
Phys 218 Physics for Science and Engineering II	5
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 Introductory 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 397W Tech Writing and Engineering Projects	3
Engr 405 Engineering Design and Practice	3
Engr 496 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 321 Fluid Mechanics	3
Engr 454 Special Topics in Engineering	3
Phys 301 Introduction to Electronics	3
Phys 340 Optics	4

**Subtotal Specific Departmental Engineering Requirements** 47

**Total Specific Departmental Requirements** 69

Auxiliary Requirements:

**Chem 150Nx Fundamentals of Chemistry I	4
**Math 221Q, 222Q, 223Q Calculus I, II, III	12
**Math 327Q Differential Equations	4

**Subtotal Auxiliary Requirements** 20

<b>Major Total</b>	<b>87</b>
<b>Free Electives (variable)</b>	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>128</b>

**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

### REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS – PHYSICAL SCIENCE FOR SECONDARY TEACHERS OPTION:

**General Education** 35-46  
See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

#### Specific Departmental Requirements:

**Phys 217Tx 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 397W Writing in Physics	3
Phys 496 Senior Seminar	2
**PhSc 206Tx Astronomy	4
PhSc 405 Cosmic Time Place	3

**Subtotal Specific Departmental Requirements** 31

#### Auxiliary Requirements:

**Math 221Q Calculus I	4
**Math 222Q Calculus II	4
**Bio 112N Introduction to Org/Ev Bio	4
**Chem 150NX Fundamentals of Chemistry I	4
**Chem 151Tx Fundamentals of Chemistry II	4
Technical Electives: Chosen from Physics, Chemistry, or Geology at the 300- or 400-level, or from Biology at the 200-, 300-, or 400-level	8
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy	4
Ed 495 Lab Experience & Seminar Secondary School	15

**Subtotal Auxiliary Requirements** 53

**Major Total** 84

(See Teacher Education section of catalog for Teacher Licensure requirements).

**TOTAL REQUIRED FOR GRADUATION** 122

**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 MINOR

### REQUIREMENTS FOR A MINOR IN PHYSICS:

**Phys 217Tx, 218 (with departmental approval Phys 201, 202)	10
Phys 320 Modern Physics	3
Phys 380 or 381 Advanced Physics Lab I or II	1
Two additional physics courses from the following: Phys 301, 340, 354, 361, 370, 420, 421	6-7
<b>TOTAL REQUIRED FOR PHYSICS MINOR</b>	<b>20-21</b>



# POLITICAL SCIENCE

Course listings for Political Science begin on page 169.

Department Chair - Dugald Owen  
 Professor - Byron Dare  
 Associate Professors - Kenyon D. Bunch, Jan E. Sallinger

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 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**PS 101S Introduction to Political Science	4
**PS 110S U.S. National Government	4
PS 250W Introduction to Political Analysis	4
PS 251W 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 480W Contemporary Political Thought	4
AND	

PS 495 Pro-Seminar in Political Science	2
OR	

### Option C:

PS 499 Independent Study (exceptional circumstances)	2
AND	

PS 495 Pro-Seminar in Political Science	2
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### Subtotal Specific Departmental Requirements 28-30

### Other Departmental Requirements:

19-20 additional hours, 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 120S State and Local Government	4
	PS 310 American Political Behavior	4
	PS 330 Public Administration	4
	PS 337 U.S. Foreign Policy	4
	PS 421 The American Presidency	4
	PS 422 Legislative Process	4
	PS 437 National Security Strategy and Policy	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 Constitutional Law: Federalism and the Separation of Powers	4
	PS 400 Native American Law and Politics	4
	PS 423 Law and the Judicial Process	4
	PS 425 Prisons and Prisoners	4
III.	Comparative Politics and International Relations	
	**PS 205N Environmental Politics	3
	**PS 280S Introduction to Comparative Politics	4
	PS 320 International Politics	4
	PS 322 International Political Economy	4
	PS 325 Middle East Politics	4
	PS 360 Revolution and the Modern World	3
	PS 365 Women and Development	3
	PS 370 Latin-American Politics	4
	PS 372 African Politics and Development	4
	PS 374 Pacific Rim Politics and Issues	4
	PS 380 Comparative Communist Systems	4
IV.	Theory and Methods	
	The Theory and Methods subfield requirement is included in Specific Departmental Requirements above (PS 250W, PS 251W, PS 386, and PS 387), but the following courses may be used to fill the 19-20 additional hours requirement:	
	PS 300 Religion and Politics	4
	PS 385 20 <sup>th</sup> -Century Socialism	3
	PS 480 Contemporary Political Thought	4

### Subtotal Other Departmental Requirements 19-20

### Auxiliary Requirements from Other Departments:

Hist 280 Survey of U.S. History, 1600-1877	3
**Hist 281R 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:

1. At least 24 credits in political science, exclusive of internship hours.
2. At least 12 of those credits must be upper-division.

**TOTAL REQUIRED FOR POLITICAL SCIENCE MINOR 24**

## PSYCHOLOGY

*Course listings for Psychology begin on page 171.*

Department Chair – Ziarat Hossain  
 Professors - Beverly R. Chew, Janet L. Jones, Thomas A. Skurky  
 Associate Professors - Michael C. Anziano, Alane S. Brown, Betty J. Dorr, Ziarat Hossain, Marilyn S. Leftwich  
 Assistant Professor – Brian A. Burke  
 Visiting Associate Professor – Susan M. Kraus

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 advisor 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 psychology classes are strongly recommended as your psychology electives: Psyc 425 Social Psychology, Psyc 426 Sensation and Perception, Psyc 327 Physiological Psychology, Psyc 387 Abnormal Psychology, Psyc 342 Psychological Testing, Psyc 254 Lifespan/Human Development, Psyc 441 Memory and Cognition, Psyc 383 History of Psychology.

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.



## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN PSYCHOLOGY:

### General Education 35-46

See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

#### 1. Core Program (ALL required; complete in the order listed):

Psyc 157 Introduction to Psychology	3
**Psyc 241Q Basic Statistics for Psychologists	4
Psyc 296W Psychological Research Methods	4
Psyc 300 Methods of Inquiry	4
Psyc 496 Senior Seminar	4

#### Core Subtotal 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 426 Sensation and Perception	4
Psyc 441 Memory and Cognition	4

#### Foundations Subtotal 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 four credits of Independent Study (Psych 299/Psych 499) will be accepted. No more than six credits of off campus coursework or innovative month will be accepted. Students are urged to work closely with their advisor in choosing the most appropriate array of courses for the student's 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.*

## Suggested Sequence of Courses for a Psychology Major

### Fall Freshman Year

Writing course if needed (Comp 125)  
Math course if needed  
Psych 157 Intro to Psych  
ES 100 (plus one PE Activity)  
Lib 150  
TS1  
(Possible Free Elective)

### Fall Sophomore Year

Psychology 241Q  
TS1  
Psychology Elective  
(Possible Free Elective)

### Fall Junior Year

Psychology 300  
TS2  
Psychology Elective  
(Possible Free Elective)

### Fall Senior Year

TS2  
Psychology Elective  
(Possible Free Elective)  
Psychology 496 either term

### Winter Freshman Year

Writing course (finish Comp 126, Comp 150)  
TS1  
Psychology Elective  
PE Activity  
(Possible Free Elective)

### Winter Sophomore Year

Psychology 296W  
TS1  
Psychology Elective  
(Possible Free Elective)

### Winter Junior Year

TS2  
Psychology Elective  
(Possible Free Elective)

### Winter Senior Year

TS2  
Psychology Elective  
(Possible Free Elective)

## Suggested Sequence of Courses for a Psychology Major With a Counseling and Clinical Emphasis

### Fall Freshman Year

Writing course if needed (TRS 91, Comp 125)  
Math course if needed (TRS 92)  
Psych 157 Intro to Psych  
ES 100 (plus one PE Activity)  
Lib 150  
TS1  
(Possible Free Elective)

### Fall Sophomore Year

Psychology 241Q  
TS1  
Psychology Elective (Psy 233)  
(Possible Free Elective)

Summer: Psy 394, Field School in Psychology

### Fall Junior Year

Psychology 300  
TS2  
Psychology Elective (Psy 342, Psy 354, Psy 387, Psy 383)  
(Possible Free Elective)

### Fall Senior Year

TS2  
Psychology Elective (Psy 420\*, Psy 375)  
(Possible Free Elective)

\* Psy 392 is pre-req

Psychology 496 either term

### Winter Freshman Year

Writing course (finish Comp 126, Comp 150)  
TS1  
Psychology Elective  
PE Activity  
(Possible Free Elective)

### Winter Sophomore Year

Psychology 296W  
TS1  
Psychology Elective (Psy 254)  
(Possible Free Elective)

### Winter Junior Year

TS2  
Psychology Elective (Psy 393, Psy 392, Psy 333, Psy 406)  
(Possible Free Elective)

### Winter Senior Year

TS2  
Psychology Elective  
(Possible Free Elective)

## Suggested Sequence of Courses For A Psychology Major With a Human Development Emphasis

### Fall Freshman Year

Writing course if needed  
(TRS 91, Comp 125)  
Math course if needed  
(TRS 92)  
Psych 157 Intro to Psych  
ES 100 (plus one PE  
Activity)  
Lib 150  
TS1  
(Possible Free Elective)

### Fall Sophomore Year

Psychology 241Q  
TS1  
Psychology Elective (Psy  
254, Psy 383)  
(Possible Free Elective)

Summer: Psy 394, Field School in Psychology

### Fall Junior Year

Psychology 300  
TS2  
Psychology Elective (Psy  
340, Psy 342)  
(Possible Free Elective)

### Fall Senior Year

TS2  
Psychology Elective (Psy  
386)  
(Possible Free Elective)

### Winter Freshman Year

Writing course (finish  
Comp 126, Comp 150)  
TS1  
Psychology Elective (Psy  
218)  
PE Activity  
(Possible Free Elective)

### Winter Sophomore Year

Psychology 296W  
TS1  
Psychology Elective (Psy  
270, Psy 372)  
(Possible Free Elective)

### Winter Junior Year

TS2  
Psychology Elective (Psy  
354, Psy 375)  
(Possible Free Elective)

### Winter Senior Year

TS2  
Psychology Elective (Psy  
441)  
(Possible Free Elective)

Psychology 496 either term

## PSYCHOLOGY MINOR

### REQUIREMENTS FOR A MINOR IN PSYCHOLOGY:

A minor in psychology consists of at least 19 required credits, at least 8 of which must be upper division. Psych 157 and at least one course from the Foundations of Psychology group are required.

**TOTAL REQUIREMENTS FOR PSYCHOLOGY MINOR 19**

## RELIGIOUS STUDIES MINOR

Course listings for Religious Studies begin on page 174.

Acting Coordinator – Dr. Robert R. Bunting  
Professors - Reyes Garcia, Neil McHugh, Mary Jean Moseley  
Associate Professors - Alane Brown, Robert R. Bunting, David L. Kozak, Dugald L. Owen, Richard M. Wheelock  
Assistant Professor - Kalin L. Grigg

Religion is one of the most powerful influences on both individual and collective human behavior throughout history, yet it is often neglected as a unified area of critical study in higher education. The minor in Religious Studies is an interdisciplinary approach to the study of various religious traditions and their impact on modern society. This minor examines religious experience within a framework of economic, political, gender, historical, class, and ethnic concerns. Coursework in Religious Studies may be used in practical application such as faith-based service in a church, synagogue, or mosque, as well as involvement with activist, social justice initiatives. This program will also provide a foundation for those students who wish to proceed to more advanced studies in seminaries and graduate schools.

### REQUIREMENTS FOR THE MINOR IN RELIGIOUS STUDIES:

- 1) At least 18 hours of coursework from the listing below, at least nine of which must be in upper-division courses.
- 2) Coursework for the minor must represent at least four different disciplines.

Some of the following courses carry Religious Studies (RS) designations. These courses may only be taken once for credit. For example, Hist 328 may not be repeated under its RS 328 designation.

Note: No more than one course from your major department will count toward this minor.

Possible course choices for the minor:

Anthropology	
**Anth 215R Magic and Religion	3
English	
**Engl 128R Bible as Literature	4
**Engl 221R Classical Literature	4
Engl 380 Native American Literature: Topics	4
History	
**Hist 262S Tolerance & Persecution in the Middle Ages	4
Hist 305 Mesopotamian Myth/Religion	3
This course is the same as RS 305.	
Hist 306 Ancient Women's Religions	4
This is the same as RS 306.	
Hist 308 Rise of Christianity	4
This is the same as RS 308.	
Hist 315 Irish, Catholic, American	4
Hist 349 Islam in History	4
Hist 355 East Asian Popular Religion	4
This is the same as RS 355	

Hist 359	Medieval Europe	4
Hist 368	Medieval Women	4
Philosophy		
**Phil 244R	Chinese Philosophy This is the same as RS 244.	3
**Phil 261R	Philosophy of Religion This is the same as RS 261.	4
**Phil 297RS	Tibetan Buddhism: Philosophy and Situation This is the same as PS 297 and RS 297.	6
Phil 320	Indigenous Worldviews This is the same as RS 320.	4
Phil 321	World Religions This is the same as RS 321.	4
Political Science		
**PS 297RS	Tibetan Buddhism: Philosophy and Situation This is the same as Phil 297 and RS 297.	6
PS 300	Religion and Politics	4
Psychology		
Psyc 310	Psychology of Religion This is the same as RS 310.	4
Religious Studies		
**RS 244R	Chinese Philosophy This is the same as Phil 244.	3
**RS 261R	Philosophy of Religion This is the same as Phil 261.	4
**RS 297R	Tibetan Buddhism: Philosophy and Situation This is the same as PS 297 and Phil 297.	6
RS 305	Mesopotamian Myth/Religion This course is the same as Hist 305.	3
RS 306	Ancient Women's Religions This is the same as Hist 306.	4
RS 308	Rise of Christianity This is the same as Hist 308.	4
RS 310	Psychology of Religion This is the same as Psyc 310.	4
RS 320	Indigenous Worldviews This is the same as Phil 320.	4
RS 321	World Religions This is the same as Phil 321.	4
RS 355	East Asian Popular Religion This is the same as Hist 355	4
RS 382	Dead Sea Scrolls	3
RS 385	Historical Jesus	3
RS 446	Ancient Israel & Judah	3
Sociology		
Soc 340	Religion and Social Life	4
Southwest Studies		
SW 322	American Indian Philosophies	3

Also appropriate are Special Topics courses 190/390s, 191/391s and Independent Study 499 with a focus on religious studies in any of the disciplines. These courses must be approved by the Coordinator.

# SOCIOLOGY/HUMAN SERVICES

*Course listings for Sociology/Human Services begin on page 175.*

Department Chair - Janine Fitzgerald  
Associate Professors - Janine M. Fitzgerald, Dennis W. Lum, Mark C. Seis  
Assistant Professors - Kalin L. Grigg, Patricia Sanchez-Flavian, Carey N. Vicenti  
Visiting Instructor - Rachel Stryker

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.

## Sociology Block Internship Program

The Sociology Block program is designed to integrate 16 credit hours 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 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 course work, 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 block program should not be enrolled in any other courses while taking the Block. The Block program also serves as the upper level writing course for participating students.

### 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.

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/HUMAN SERVICES – GENERAL OPTION

### REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOCIOLOGY/HUMAN SERVICES – GENERAL OPTION:

**General Education** **35-46**  
See page 30 for General Education requirements

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

Specific Departmental Requirements:

**Soc 100S Introduction to Sociology	4
Soc 200 Social Change and Human Services	4
Soc 210W Social Inquiry and Research Methods	4
Soc 300W Theories of Social and Personal Life	4
<sup>1</sup> 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**

<sup>1</sup>Up 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 major 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** **35-46**  
See page 30 for General Education requirements

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**Soc 100S Introduction to Sociology	4
Soc 210W Social Inquiry and Research Methods	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 hours, with at least 8 of those in upper division courses to be chosen from the following course selections:

**Phil 251S Moral Philosophy	4
**Phil 252N 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 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.

**Total 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** 39-50  
See page 30 for General Education requirements

\* 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.  
\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**GS 101R Human Heritage I	4
OR	
**Soc 250R Social Issues-Native Society	4
Soc 210W* Social Inquiry and Research Methods	4
**Soc 279R Ethnicity, Gender and Class in the SW	4
Soc 300W Theories of Social and Personal Life	4
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

Writing Course Within Discipline:  
Included in Specific Departmental Requirements above.

### Other Departmental Requirements:

A minimum of 16 additional hours to be chosen from the following course selections:

**Anth 215R 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 174R African-American Literature	4
**Engl 176R Native American Literature	4
**Engl 177R U.S Latina/o Literature	4
**Engl 280R Literature of the Southwest	4
Engl 380 Native American Lit: Topics*	4
**GS 102S 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 Fundamentals of Navajo Language	3
ML 101 Navajo Language II	3
**ML 118R Spanish of the Southwest	4
ML 318 Advanced Spanish of the Southwest	4
ML 331 Chicano Literature*	4
**Phil 244R Chinese Philosophy*	3
**Phil 261R Philosophy of Religion	4
Phil 320 Indigenous World Views	4
Phil 382 Philosophies of the Southwest	3
PS 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 123R American Indian History	3
SW 125 History of Hispanos in the Southwest	3
**SW 280S Native Americans in the Modern World	3
Any SW 300 level and above	3-4

\*Courses followed by an asterisk have prerequisites.

Total Other Departmental Requirements	16
Total Departmental Requirements	48
Free Electives (variable)	
<b>TOTAL REQUIRED FOR GRADUATION</b>	<b>120</b>

**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.*

## CRIMINOLOGY MINOR

### REQUIREMENTS FOR A MINOR IN CRIMINOLOGY:

Students must take a total of 20 credits. Four of those credits must be either Soc 362 or PS 241, and the additional 16 credits must be taken from any of the other courses listed for the Criminology Option.

**TOTAL REQUIRED FOR CRIMINOLOGY MINOR** 20

## SOCIOLOGY/HUMAN SERVICES MINOR

### REQUIREMENTS FOR A MINOR IN SOCIOLOGY/HUMAN SERVICES:

Completion of 20 credits in Sociology/Human Services of which a minimum of 12 credits are in upper-division courses.

**TOTAL REQUIRED FOR SOCIOLOGY/HUMAN SERVICES MINOR** 20

# SOUTHWEST STUDIES

Course listings for Southwest Studies begin on page 177.

Department Chair - Richard N. Ellis  
 Professors – Robert R. Bunting, Richard N. Ellis, Andrew J. Gulliford,  
 Duane A. Smith  
 Associate Professor - Richard M. Wheelock  
 Assistant Professor - Peter McCormick

The Department of Southwest 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 Southwest Studies must complete 45 hours. The 45 hours consist of 15 hours of Core Courses, 15 hours of Concentration Courses, and 15 hours of Southwest Elective Courses. At least 27 of the 45 total hours of course work needed for a Southwest major will be at the 300 and 400 levels.

In addition to offering a major in Southwest Studies, the department also offers minors in Southwest Studies, Native American Studies, and Heritage Preservation. The Southwest Studies minor consists of 18 hours of course work within the department, with at least nine of those hours being upper-division courses.

A minor in Native American Studies and a minor in Heritage Preservation are listed at the end of this section.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES:

**General Education** **35-46**  
 See page 30 for General Education requirements

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**SW 131N Southwest History and Culture	3
OR	
**SW 135R The Southwest	3
SW 301W Writing in the Southwest 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 280S 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 181N U.S./Southwest Environmental Hist	3
** SW 250Nx Ecology of the Southwest	4
SW 333 Wilderness in America	3
SW 335 National Parks: Americas Best Idea	3

Two of the following courses in Art, Literature, and Culture:

SW 265 Art History of the Southwest	3
SW 282 Hispano Culture 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 402 Contemporary Art and Literature of the Southwest	3

**Subtotal Other Departmental Requirements** **15**

### Southwest Elective Courses:

SW 100 Fundamentals of Navajo Language I	3
SW 101 Navajo Language II	3
SW 115 Native American Newsletter	3
**SW 123R American Indian History	3
SW 154 Indian Arts and Crafts	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 Newswriting	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 482 Western American Mining	3
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 six of the 15 elective course hours can be taken from the following list of approved courses in departments other than Southwest Studies:

**Anth 120S 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 280R	Literature of the Southwest	4
**Geol 150N	Geology of the Southwest	3
ML 115	Elementary Spanish I	4
ML 116	Elementary Spanish II	4
ML 215	Intermediate Spanish I	4
**ML 216R	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 400	Native American Law and Politics	4
**Soc 250R	Social Issues in Contemporary Native Societies	4
**Soc 279R	Ethnicity, Gender, and Class in the Southwest	4
Soc 421	Contemporary Social Analysis in the Southwest	4
<b>Total Departmental Requirements</b>		<b>45</b>

**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 - HERITAGE PRESERVATION MINOR

Coordinator – Robert R. Bunting, Associate Professor of Southwest Studies

The minor in Heritage Preservation will allow liberal arts majors to explore career options in the fields of public history, cultural resources interpretation and management, and archival and museum studies. Students will utilize the collections of the Center of Southwest Studies in the new \$7.6 million building for their coursework. Structured internships and practicums that are both local and regional will provide one-on-one mentored relationships with area professionals and with staff from federal agencies such as the U.S. Forest Service, the National Park Service, and the Bureau of Land Management.

Note: No more than one course from your major department will count toward this minor.

A total of 18 credits are required; at least nine credits must be upper division.

Required courses:

SW 255	Introduction to Heritage Preservation	3
SW 491	Practicum in Southwest Studies	3

Electives: 12 credits selected from the following with the approval of the Heritage Preservation coordinator.

SW 256	Introduction to Museums	3
SW 340	Archival Theory and Practice	3
SW 341	Oral History Theory and Practice	3

SW 342	Interpretation of Cultural Resources	3
SW 450	Tribal Preservation	3
SW 493	Internship in Southwest Studies	3

Electives from the Department of Anthropology:

Anth 330	Archaeology of the Southwest	3
Anth 388	Ethnology of the Southwest	3

Electives from the Department of Southwest Studies:

SW 323	Southwest Indian History	3
SW 361	Cultural Ecology of the SW	3
SW 383	Southwest History to 1868	3
SW 384	Southwest History Since 1868	3
SW 425	Hispanic Civilization	3
SW 481	Colorado History	3
SW 482	Western American Mining	3

**TOTAL CREDITS REQUIRED FOR HERITAGE PRESERVATION MINOR 18**

## SOUTHWEST STUDIES - NATIVE AMERICAN STUDIES MINOR

Coordinator - Richard M. Wheelock, Associate Professor  
Department of Southwest Studies

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.

A total of 18 credits are required; at least nine credits must be upper division.

Note: No more than one course from your major department will count toward this minor.

**TWO REQUIRED COURSES:**

**SW 123R American Indian History	3
AND <i>one of the following two:</i>	
**Soc 250R Social Issues in Contemporary Native American Societies	4
OR	
**SW 280S Native American in the Modern World	3

**Choose at least one Course (literature, arts, & media):**

SW 115 Native American Newsletter	3
SW 154 Indian Arts/Crafts I	3
SW 317 History of American Indians in Film	3
SW 327 American Indians and the Mass Media	3
SW 315 Native American Newswriting	3
SW 365 Mesoamerican Art History	3
SW 358 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, & cosmology):**

**Anth 120S 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 100 Fundamentals of Navajo Language I	3
SW 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, & law):**

PS 400 Native American Law and Politics	4
**Soc 250R Social Issues in Contemporary Native Societies	4
SW 323 Southwest Indian History	3
SW 355 Development of United States Indian Policy	3
**SW 280S Native American in Modern World	3

**TOTAL CREDITS REQUIRED FOR NATIVE AMERICAN STUDIES MINOR** 18

## SPANISH MINOR

(See *Modern Languages* on page 86. Course listings begin on page 158.)

# STUDENT CONSTRUCTED MAJOR

Contact the Director of the Academic Advising Center, Beverly Chew, Professor.

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 Student Constructed Major 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 Department of Teacher Education.

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 needs to 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 SCM must include an appropriate Writing Intensive course (W) and at least two credits of an appropriate departmental senior seminar (496) or a senior year independent study (499). Forty percent of the SCM courses must be numbered 300 or above. Courses taken to satisfy TS1, Q and W requirements may be included in the list of major courses if appropriate. Courses taken to satisfy TS2 general education requirements may not be included as required courses in the major, however, a SCM may include one or more TS2 courses within a list of course options from which the student will choose one course. TS2 courses listed in this way can count both for the major requirements and for the TS2 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 35-46

See page 30 for General Education requirements.

#### Specific Requirements for the Major:

Minimum of 44 credits of course work (must include Group W writing course and at least two credits of a 496 Senior Seminar or a 499 Independent Study taken during the senior year) 44

\*\*Note that Thematic Studies 1 courses may also count toward the major. 12-16 credits of Thematic Studies 1 could be counted toward major requirements.

### 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

*Education course listings begin on page 139.*

Director of Teacher Education – David Hayes  
Professor - Stephen A. Roderick  
Associate Professors – Maggie Cason, Joe Lounge, Gene Taylor  
Assistant Professors - Jennifer Trujillo, Troy Webb  
Visiting Instructors – Toi Creech, Susan Martinez

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 to complete both a bachelors 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). Students may also visit the Teacher Education website at [Http://extended-campus.fortlewis.edu](http://extended-campus.fortlewis.edu).

The Fort Lewis College Teacher Education Department (TED) 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 AT FORT LEWIS COLLEGE

Undergraduate Students: Undergraduate students interested in seeking teaching licensure at FLC 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 (top floor, EBH) for this purpose. The steps to teaching 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 FLC 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 Major students 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 FLC 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 thirty credits students may apply for admission to the Teacher Education Licensure Program. To do so, students must secure an application from the Department of Teacher Education (Top Floor, EBH), complete the application, and return it to the Department of Teacher Education. 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 second Friday of the term before they student teach. 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 FLC as *unclassified students*, and do not choose a major. Post-baccalaureate students interested in seeking teaching licensure at FLC should fully understand the several steps in the process *prior* to applying for admission to FLC. The steps to teaching 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 Education will then review the transcript 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 teacher education, 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 FLC.

4) Post-baccalaureate students admitted to FLC should seek an academic advisor in their content area as well as an advisor in Teacher Education. Students should meet with their advisors 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 Department of Teacher Education (Top Floor, EBH), complete the application, and return it to the Department of Teacher Education. 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 second Friday of the term before they student teach. 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 choose both a specific licensure program and the academic major required for that licensure program. The licensure programs and corresponding academic majors follow:

- Early Childhood Education (Preschool-3<sup>rd</sup> grade) and Elementary Education (grades K-6) licensure students must choose the Interdisciplinary Studies Major (ISM) and either ISM's Early Childhood Education (ECE) option or its Elementary Education (EI Ed) option. See page 81 for information on the ISM Major.
- Secondary English (grades 7-12) licensure students must choose the English major and its English Education Option. See page 64 for information on the English Major.
- Secondary Mathematics (grades 7-12) licensure students must choose the Mathematics major. See page 85 for information on the Math Major.
- Secondary Science (grades 7-12) licensure students must choose one of four majors:
  1. Biology and its Biology for Biology Education Option. See page 39 for information on the Biology Major.
  2. Chemistry and its Chemistry for Secondary Teachers Option. See page 57 for information on the Chemistry Major.
  3. Geosciences and its Earth Science for Secondary Teachers Option. See page 75 for information on the Geosciences Major.

4. Physics and its Physical Science for Secondary Teachers Option. See page 93 for information on the Physics Major.
- Secondary Social Studies (grades 7-12) licensure students must choose one of two majors:
    1. History. See page 78 for information on the History Major.
    2. Humanities with history as the primary concentration. See page 80 for information on the Humanities Major.
  - Secondary Spanish (grades 7-12) licensure students must choose the Spanish major. See page 86 for information on the Spanish major.
  - Art (grades K-12) licensure students must choose the Art major. See page 37 for information on the Art major.
  - Music (grades K-12) licensure students must choose the Music major and its Music Education option. See page 88 for information on the Music Major.
  - Physical Education (grades K-12) licensure students must choose the Exercise Science major and its K-12 teaching option. See page 69 for information on the Exercise Science Major.

## ADDITIONAL LICENSURE OPTIONS

With additional coursework, students have an option of seeking licensure in two other areas. These options are called add-on endorsements. The add-on areas are:

Linguistically Diverse Education (LDE) Licensure  
Linguistically Diverse Education Specialist: Bilingual (LDES) Licensure

With additional coursework, students seeking licensure in any area shown above may also seek licensure in the Linguistically Diverse Education (LDE) curriculum. With additional coursework, students licensed in LDE may also seek licensure in LDES. The state of Colorado currently is making modifications to the requirements for these licensures. These two add-on licensure programs are replacing the currently available ESL and Bilingual programs. Interested students should contact LDE coordinator Dr. Jennifer Trujillo for specific information and to determine whether they may complete the current programs.

Early Childhood Education (ECE) Licensure

With additional coursework, students seeking licensure in Elementary Education above may also seek licensure in Early Childhood Education. Interested students should contact the Director of Teacher Education for specific information.

## REQUIREMENTS FOR ADMISSION TO THE TEACHER EDUCATION LICENSURE PROGRAM

### Undergraduate Students

To be admitted to the Teacher Education Licensure Program, the undergraduate student must submit to the Teacher Education Department the following documentation:

- a completed Teacher Education application along with a current FLC transcript that shows that the applicant is currently enrolled at FLC, is in the approved major for the licensure area, and has completed a minimum of 30 credit hours.

- verification of submission of fingerprints for a Colorado Department of Education background investigation (documentation of fingerprint card submission or copy of Colorado substitute teaching license).
- verification of having completed ED200R (*Introduction to Education in America*) with a minimum grade of B- (verification by transcript)
- verification of having completed Comp 150 or Comp 126 or Comp 250 with a minimum C grade. (verification by transcript)
- verification of having completed one course designated as fulfilling a college Q (quantitative Reasoning) requirement with a minimum C grade. (verification by transcript)
- Verification of having attained a cumulative GPA of at least 2.75. (verification by transcript)
- Applicants who deviate from the above requirements may petition for admission to the Department's *Professional Education Review Committee* (PERC) The PERC is composed of three TED faculty members who will review the applicant's petition. The PERC Committee will review each case on its merits and will consider admission to the program if the applicant fulfills three conditions:
  1. Written communication demonstrating evidence of rising academic performance.
  2. Written communication of specific academic goals, including how the applicant will raise his/her cumulative GPA to at least the 2.75 minimum required for student teaching.
  3. Three letters from FLC faculty members which support the applicant's potential for academic success.

### Post-baccalaureate students

To be admitted to the Teacher Education Licensure Program, the post-baccalaureate student must submit to the Teacher Education Department the following documentation:

- a completed Teacher Education application along with a current FLC transcript showing that the applicant is currently enrolled at FLC, and an official transcript from the degree granting institution.
- verification of submission of fingerprints for a Colorado Department of Education background investigation (Documentation of fingerprint card submission or copy of Colorado substitute teaching license).
- verification of having completed ED200R (*Introduction to Education in America*) with a minimum grade of B- or current enrollment in the course. NOTE: Applicants currently enrolled in the course who fail to earn a minimum B- grade will have their admission rescinded at the end of the term, and will not be eligible to take 400 level education courses the following term.
- demonstrate potential for academic success in ONE of the following two ways:
  1. Verification of having attained a cumulative GPA of at least 2.75 (based on course work at FLC and the GPA established with the Director of Teacher Education as indicated at the time of admission to FLC).
  2. Applicants who have not attained the minimum GPA requirement may petition for admission to the Department's *Professional Education Review Committee* (PERC) The PERC is composed of three TED faculty members who will review the applicant's petition. The PERC Committee will review each case on its merits and will consider admission to the program if the applicant fulfills three conditions:

- a. Written communication demonstrating evidence of rising academic performance.
- b. Written communication of specific academic goals, including how the applicant will raise his/her cumulative GPA to at least the 2.75 minimum required for student teaching.
- c. Three letters from FLC faculty members, or faculty members from the applicant's undergraduate institution, which support the applicant's potential for academic success.

## REQUIREMENTS FOR ADMISSION TO STUDENT TEACHING

To be admitted to student teaching the student must submit an application to the Department of Teacher Education no later than the second Friday of the fall term for winter student teaching, or no later than the second Friday of the winter term for fall student teaching. The application and supporting documents must demonstrate the following:

- senior or post-baccalaureate standing.
- having passed the approved PRAXIS II or PLACE content exam. Students who are awaiting their test results may apply but will not be placed into student teaching until they have passed the test. See below for specific test information
- having earned a minimum B- in an upper-division (300-400 level) writing course. For the ISM major, this requirement is fulfilled only in the required ED 317 course.
- having completed 100% of coursework
- having achieved a minimum cumulative grade point average (GPA) of 2.75 and a minimum 2.75 GPA in licensure program courses.

In addition, to be admitted to student teaching, applicants must have the support of the majority of the teacher education faculty. Such support may be withstanding for violations of academic integrity or irresponsible actions in field experiences or course work. Applicants must also be willing to commute to an area outside of Durango as not all student teachers can be placed in the Durango 9R School District. Reasonable attempts will be made to approve students' request to student teach out of area. Students who student teach out of area (more than 70 miles from Durango) are charged a fee of \$250 or more to compensate out-of-area college consultants.

### PERC Petition

Students not meeting the above requirements may petition for a review by the Professional Education Review Committee (PERC). See Admission to Student Teaching for conditions for petition. The PERC Committee may deny the petition or specify stipulations that the applicant must fulfill prior to or in conjunction with students teaching. In no case may a student be allowed to student teach without having passed the approved content test.

### Content Tests

To be admitted to student teaching the applicant must have passed the approved content test for his/her licensure program. Thus, students should take their test in ample time for them to receive their testing results before they make application to student teach. Students who delay taking their content test may find that their student teaching term is also delayed. Students should be aware that the state of Colorado changes its testing requirements from time to time and what is published in this catalog could change. Prior to taking their content test, students would be wise to check with the Director of Teacher Education for current information. In some programs, students currently have the option of taking either the PLACE or the Praxis II content test. In other programs, taking the PLACE test is the only option. Study guides for the tests are on reserve at Reed Library and students may find other information about these tests at [www.ets.org/praxis](http://www.ets.org/praxis) for the Praxis Test, and at [www.place.nesinc.com](http://www.place.nesinc.com) for the Place Test.

### **THE PARTNERSHIP PROGRAM**

Currently the Partnership Program is available only for students seeking elementary education licensure. The Partnership Program spans the academic year of the school district in which partnership students are placed. Therefore, Partnership students enroll in courses and field experiences in Fall, Winter, and Summer terms. Education methods courses are integrated into the field experiences. At times students practice teach in their assigned school, and at other times they travel to campus to take required courses. Students submit an application for the Partnership Program to the Department of Teacher Education. The requirements for admission are the same as for admission to student teaching with one major exception. Partnership students take their education methods courses during the partnership year, so must earn the minimum "C" grade in each course as a requirement for recommendation for licensure.

### **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 (or Partnership) 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 forty-five 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 FLC 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 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 a completed application for Provisional License to The Colorado Department of Education.

Students wishing to apply to another state are advised to contact the appropriate Department of Education for information about specific requirements.

## **FIELD EXPERIENCES**

Field experience activity is a vital part of the preparation program. These experiences are conducted in authentic, supervised, school settings.

Students attend college courses that include direct instruction of methods, practices, and procedures in their content. These courses include specific assignments for field experiences associated with predetermined learning standards. Students work in area schools to complete specific assignments that address a variety of standards including Colorado K-12 Model Content Standards, CDE Performance-Based Standards for Colorado Teachers, and Section 8 in rules for the Administration of the Educators Licensing Act of 1991. All students are required to submit fingerprints to the Colorado Department of Education before participating in field-based study. Students may be withdrawn from field study at the discretion of the Teacher Education Licensure Program faculty.

Candidates of the Teacher Education Licensure Program are required to adhere to professional standards and ethics in their academic work and field study experience. Professional behaviors and actions include but are not limited to the following examples:

- Candidate's academic work must reflect integrity and honesty.
- Candidates are expected to use appropriate language and professional discourse with students, supervising teachers, and professors.
- The candidate's field study logs must be an accurate, valid, and concise representation of the time spent participating in field study experiences.
- Candidates are expected to dress appropriately for the contemporary traditional classroom. Dress codes should be modeled after supervising teachers and /or TED professors.

Candidates, who display unprofessional or unethical behavior, will be subject to disciplinary actions, which could result in the candidate's removal from the TED Program. Finally, any illegal conduct, amoral actions, or violations deemed seriously negligent on the part of a student teacher candidate, will result in the immediate removal from the TED Program and possible notification of legal infraction to local/state authorities.

## **EARLY CHILDHOOD (ECE) LICENSURE PROGRAM (Preschool-3rd Grade)**

Undergraduate students seeking ECE licensure choose the Interdisciplinary Studies Major (ISM) and follow the ECE Option. For graduation in the ISM Major, students must earn a minimum total of 120 credits, including completion of 35-46 general education credits. FLC undergraduate students should refer to ISM, page 81, for full information and for elective course options.

In order to obtain ECE Licensure, post-baccalaureate and FLC graduates must have completed the following required courses in the teacher education licensure program:

Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4

**Content Course Requirements (45 cr)**Language Arts (18 credits)

ED 317 Professional Writing for Educators	3
ED 327 Children's Literature	3
ED 335 Linguistics for Educators	3
Electives: See ISM Program for options	9

Mathematics (4 credits): may also count for Gen ED Q course  
One of the following: Math 110Q or Math 201Q or  
Psyc 241Q or BA 253 Q 4

Science (3 credits, must include a lab course)

See ISM Program for options 3

Social Sciences (20 credits)

Psyc 254 Life Span Human Development	4
Ed 353 Child Growth & Development (3 cr) or Psyc 354 Topics in Child Psychology (4 cr)	3-4
Electives: See ISM for options	12-13

400-level education courses (38 credits) are restricted to students admitted to the Teacher Licensure Program

Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 423 Language Arts, Music, Art and Movement	4
Ed 427 Language Arts Methods	4
Ed 453 Cognitive Skills for the Young Child	4
Ed 456 Early Childhood Administration/Parent, Community Relations	3

Note: Ed 456 should be taken the semester prior to student teaching.

Ed 492 Lab Experience and Seminar in the Kindergarten/Primary School Setting	15
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**ELEMENTARY EDUCATION LICENSURE PROGRAM (Grades K-6)**

Undergraduate students seeking Elementary Education licensure choose the Interdisciplinary Studies Major (ISM) and follow the Elementary Education option. For graduation in the ISM Major, students must earn a minimum total of 120 credits, including completion of 35-46 general education credits. Students should refer to ISM, page 81) for full information and for elective course options.

In order to obtain Elementary Education Licensure, post-baccalaureate and FLC graduates must have completed the following required courses in the teacher education licensure program:

Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4

**Content Course Requirements (45 cr)**Language Arts (12 credits)

ED 317 Professional Writing for Educators	3
ED 327 Children's Literature	3
ED 335 Linguistics for Educators	3
Electives: See ISM Program for options	3

Mathematics (10 credits): 4 cr. may also count for Gen ED Q course  
Math 110Q College Algebra 4  
See ISM Program for all options 6  
(Recommended: Math 215Q: Math for Elem I- 3 cr.  
Recommended: Math 318Q: Math for Elem II-3 cr.

Science (12 credits, must include a lab course)

See ISM Program for all options 12

Social Sciences (10 credits)

Psyc 254 Life Span Human Development	4
See ISM Program for all options	6
Recommended: Hist 280 or 281R	3

400-level education courses (39 credits) restricted to students admitted to the Teacher Licensure Program.

Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 423 Language Arts, Music, Art and Movement	4
ED 425 Science Methods	4
ED 426 Social Studies/Math Methods	4
Ed 427 Language Arts Methods	4
GS 496 Senior Seminar	2
Ed 494 Lab Experience and Seminar in Elementary School	15

**SECONDARY EDUCATION LICENSURE PROGRAMS (Grades 7-12) )**

Students may seek licensure in Secondary Education (grades 7-12) in any of the following subject areas: English, Mathematics, Science, Social Studies, or Spanish. Undergraduate students must select the approved major or majors that correspond to their chosen licensure program (*See Teacher Licensure Programs at FLC and Approved Corresponding Majors, above*). For graduation in any major, students must earn a minimum total of 120 credits, including completion of 35-46 general education credits. Students should refer to their approved majors in this catalog for full information.

In order to obtain Secondary Education Licensure, post-baccalaureate and FLC graduates must have completed the following required courses in the teacher education licensure program:

Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4

Major Courses: (total credits vary-See the approved major for information on specific course requirements)

400-level education courses (25 credits) restricted to students admitted to the Teacher Licensure Program.

Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy in the Secondary School	4
Ed 495 Laboratory Experience and Seminar in the Secondary School	15



## K-12 LICENSURE PROGRAMS

Students may seek licensure in K-12 Education in any of the following subject areas: Art, Music, or Physical Education. Undergraduate students must select the approved major that corresponds to their chosen licensure program (*See Teacher Licensure Programs at FLC and Approved Corresponding Majors, above*). For graduation in any major, students must earn a minimum total of 120 credits, including completion of 35-46 general education credits. Some programs require more credits for graduation. Undergraduate students should refer to their approved majors in this catalog for full information.

In order to obtain K-12 Education Licensure, post-baccalaureate and FLC graduates must have completed the following required courses in the teacher education licensure program:

Ed 200R Introduction to Education in America	4
Ed 210S Culture of Childhood and Youth	4

Major Courses: (total credits vary-See the approved major for information on specific course requirements)

400-level education courses (25 credits) restricted to students admitted to the Teacher Licensure Program.

Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 424 Language and Math Literacy in the Secondary School	4
Ed 494 Laboratory Experience and Seminar in the Elementary School	7
Ed 495 Laboratory Experience and Seminar in the Secondary School	8

Additional Requirements (ART and PE only)

Psyc 254 Life Span Human Development	4
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## ADDITIONAL LICENSURE OPTIONS

With additional coursework, students have an option of seeking licensure (add-on endorsements) in two other areas.

### Early Childhood Add-On Endorsement

Students who complete the Elementary Education Licensure Program must complete the following courses to add an Early Childhood Endorsement.

Specific Departmental Requirements:

Ed 353 Growth and Development of the Young Child	3
Ed 453 Cognitive Skills for the Young Child	4
Ed 456 Early Childhood Administration/Parent, Community Relationships	3
Ed 492 Lab Experience and Seminar in the Kindergarten/Primary (K-3) School setting	*15

\*NOTE: Students who completed K-3 student teaching are not required to complete additional student teaching.

Additional coursework required in special topics in Early Childhood literacy and creative art

2

**Early Childhood Endorsement Total** **27**

### Linguistically Diverse Endorsements: Bilingual or ESL

(Available to all students seeking licensure.)

Note: This program is changing and the requirements may change as well. Contact a Teacher Education advisor for more information.

Core Requirements:

**Ed 210S Culture of Childhood and Youth	4
Ed 421 Individualized Instruction in a Pluralistic Society	6
Ed 333 Southwest Language Immersion for Teachers	3
Ed 335 Educational Linguistics	3
OR	
Eng 462 Linguistics	3

Cultural Emphasis: Culturally based art, literature, or social science courses

9

ESL students must also take:

Ed 334 Methods of Teaching English as a Second Language	3
AND	

Pass the ESL PLACE exam

Bilingual students must also take:

Ed 332 Materials and Methods of Bilingual Education	3
AND	

Pass the Bilingual PLACE exam and pass a language proficiency test.

ESL and Bilingual students must complete 30 hours of documented field experience with linguistically different children.

**Linguistically Diverse Endorsement Total** **28-31**

# THEATRE

Course listings for Theatre begin on page 180.

Department Chair - Ginny A. Davis  
 Associate Professor - Kathryn S. Moller  
 Assistant Professor - Ginny A. Davis

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 our work. 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.

Requirements for a minor in theatre are listed at the end of this section.

## REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN THEATRE:

**General Education** **35-46**  
 See page 30 for General Education requirements.

\*\* Courses marked with double asterisks may also be counted toward TS1 or Q requirements.

### Specific Departmental Requirements:

**Thea 126R Intro to Dance	4
Thea 135 Acting Techniques	4
Thea 230 Stage Technology	4
Thea 240 Ancient and Classical Theatre	4
Thea 336 Creating Performance: Directing	4
Thea 340W Modern Theatre	4
Thea 496, 497 Senior Seminar	2/2

**Subtotal Specific Departmental Requirements** **28**

### Theatre Studies Electives:

A total of 14-16 credits chosen from the following courses:

Thea 231 Makeup for Stage	2
Thea 233 Audition Techniques	2
Thea 236 Styles in Acting	4
Thea 280 Interdisciplinary Studies	4
Thea 310 Design for Stage	4
Thea 322 Creative Dramatics	4
Thea 323 Children's Theatre	4
Thea 366 Dance Techniques	2
Thea 381 Special Topics in Dramatic Lit	4
Thea 382 American Indian Theatre	4
Thea 460 Internship in Theatre	4
Thea 190/390 Special Topics	4

**Subtotal Electives** **14-16**

### Other Department Requirements:

A total of 6 credit hours chosen from Theatre Ensemble and Performance Studies. At least two of these credits should be in technical theatre and two in performance.

Thea 300 Theatre Ensemble	2-4
Thea 400 Performance Studies	2-4

**Subtotal Other Departmental Requirements** **6**

**Total Major Requirements** **48-50**

**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.*

## THEATRE MINOR

### REQUIREMENTS FOR A MINOR IN THEATRE:

#### Departmental Requirements:

One of the following two courses:

Thea 240 Ancient and Classical Theatre	4
Thea 340W 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 (Theatre Ensemble) and Thea 400 (Performance Studies). Both courses are variable credit from 1-4.

#### Theatre Electives:

A total of 8 credit hours from:

**Thea 126R Introduction to Dance	4
Thea 135 Acting Techniques	4
Thea 190/390 Special Topics	4
Thea 230 Stage Technology	4
Thea 231 Stage Makeup	2
Thea 233 Audition Techniques	2
Thea 236 Styles in Acting	4
Thea 280 Interdisciplinary Studies	4
Thea 310 Design for the Stage	4
Thea 322 Creative Dramatics	4
Thea 323 Children's Theatre	4
Thea 336 Creating Performance: Directing	4
Thea 366 Dance Techniques	2
Thea 381 Special Topics in Dramatic Literature	4
Thea 382 American Indian Theatre	4
Thea 460 Internship in Theatre	4
Thea 496/497 Senior Seminar	2/2

**TOTAL REQUIRED FOR THEATRE MINOR** **20**

# WOMEN'S STUDIES MINOR

Course listings for Women's Studies begin on page 185.

Coordinator- Kathleen S. Fine-Dare  
 Professors - Kathleen S. Fine-Dare, Susan Moss, and Carol Smith  
 Associate Professors - Alane S. Brown, Janine M. Fitzgerald, Jennifer Gehrman, Michele M. Malach, Kathryn S. Moller, and Jan E. Sallinger  
 Assistant Professors – Marcelyn B. Jung and Sarah Roberts-Cady

The Women's Studies Minor takes an interdisciplinary approach to the study of women, sex, and gender. Informed by theories of feminism, Women's Studies addresses a variety of issues including a respect for sociocultural diversity; an understanding of systematic and historical forms of inequality; a concern for building social equality and justice; and the rethinking of methodological and pedagogical concerns while conducting research and teaching in any discipline. Women's Studies is committed to an honest and critical discussion about the ways that the individual, society, and culture intersect, and to exploring views about sex role and gender issues from a variety of disciplinary perspectives.

Students may therefore select from a variety of courses in Women's Studies and in several other disciplines to create a minor in Women's Studies that will complement and enhance their chosen major and/or their future career goals.

Students who plan to complete a minor in Women's Studies should consult with their regular faculty advisor and a member of the Women's Studies faculty, listed above.

Note: No more than one course from your major department will count toward this minor.

## REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES:

I. CORE COURSES (10 credit hours)	
**WS 101S Introduction to Women's Studies	4
WS 301 Feminist Studies: Theories and Methods OR	
WS 332 Women in American History	4
WS 495 Capstone Colloquium in Women's Studies OR	
WS 499 Individualized Study	2
<b>Total Core</b>	<b>10</b>
II. CONTEMPORARY GENDER APPLICATIONS (Choose one; 3-6 credit hours)	
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 Women's Studies Coordinator to receive approval before signing up.) Examples of such courses include: Anth 316 Internship in Anthropology; Engl 258/358 Service Learning Practicum in English; 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 hours of internship or practicum experience to the Women's Studies minor.*

III. DISCIPLINARY INTERROGATIONS OF FEMINIST THOUGHT  
 Choose two, 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 217R Cultural Images of Women and Men 4  
 Anth 355 Anthropology of Gender (same as WS 355;  
 a student may receive credit for only one of these courses) 4

### English

\*\*Engl 175R Women's Literature 4  
 Women's Studies approved topics courses in Engl 317, 337, 345, 346, 380 and 420 (A list of 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.) 4

### History

Hist 306 Ancient Women's Religions (same as RS 306; a student may receive credit for only one of these courses) 4  
 Hist 332 Women in American History (same as WS 332; a student may receive credit for only one of these courses) 4  
 Hist 368 Medieval Women 4

### Modern Languages

ML 308 Topics in French Literature (when topic is Women's Studies approved) 3  
 ML 334 Topics in German Literature (when topic is Women's Studies approved) 3

### Philosophy

Phil 365 Philosophies of Feminism 3

### Political Science

PS 365 Women and Development (same as WS 365; a student may receive credit for only one of these courses) 3

### Psychology

Psyc 270 Psychology of Gender 4

### Sociology

\*\*Soc 275S Families, Marriages, and Other Sex Role Systems 4  
 \*\*Soc 279R 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 WOMEN'S STUDIES MINOR 19-24**



# SPECIAL ACADEMIC PROGRAMS

## COOPERATIVE EDUCATION PROGRAM

*Course listings for the Cooperative Education Program begin on page 136.*

Academic Coordinator: Carol L. Smith  
Career Services Coordinator: Allyn L. Talg

The C-operative Education Program offers opportunities for students in all major fields to earn elective credit by applying knowledge and skills they have acquired in the classroom to career-related experiences.

### Eligibility Requirements

Students are eligible to participate in the Cooperative Education Program after they have earned 30 credit hours with a minimum 2.5 GPA.

### Advising

Students should discuss their plans to participate in the Cooperative Education Program with their academic advisors.

### Positions for Cooperative Education

Assistance in obtaining a position is available through appointments and seminars in the Career Services Office. A list of internship positions is available on the Career Services website under Vacancy Listings and internship directories are available in the Career Services Office.

### Enrollment Procedures and Deadlines

Enrollment procedures begin at the Career Services Office website. Students must plan ahead to participate in the Cooperative Education Program. There are deadlines to file the on-line application, to file learning objectives and work agreement, and deadlines to register. Deadlines for each term are posted at the Career Services Office website

### Determination of Course Level and Number of Credits

Co-op credit may be earned at the 200-, 300-, and 400- level. The number of Co-op credits taken at any one time can range between 1-12, except at the 200-level, where the limit is 10 credits. Students may apply no more than 12 credits of Co-op toward graduation. Co-op is elective credit.

Decisions on whether to approve a Co-op experience, to approve 200-, 300- or 400-level credit, and to approve the number of credits rests with the Academic and Career Services coordinators who follow guidelines approved by the faculty.

Colorado Commission on Higher Education policy requires 50 contact hours in an internship experience for each academic credit earned.

### Grading

To earn Co-op credit, students must submit weekly work reports, as well as an end-of-term paper or project related to their approved learning objectives, and receive satisfactory evaluations from their supervisor. Grading is on a credit (S) or no-credit (NC) basis.

## ENRICHMENT PROGRAM

Enrichment courses are one or two credit "mini-courses" that are numbered 190 and/or 390 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, or general education requirements.

## EXTENDED STUDIES

### **Innovative Months**

Each year a selection of "innovative month" courses offers focused and in-depth study. These are typically six-credit courses that include travel, either regional or international, and immersion in other cultures. Travel classes are an increasingly important part of a complete education for the growing interactions of world cultures and markets. Whether a student's interest is business, education, government, or social commitments, these opportunities for travel study may be an important part of a student's total educational program.

Recent courses have included a field study of environmental politics in the Southwest; a field study experience in animal behavior in Kenya; a van tour of Mexico for immersion in Mesoamerica language and culture; and travel to nations as divergent as Ladakh, France, Spain, and Guatemala focusing on political, cultural, and economic change. These courses are announced during the fall and winter terms for the coming summer.

For more information regarding Fort Lewis College Extended Studies, visit the Extended Studies website: [www.fortlewis.edu/community\\_culture/extended\\_studies/](http://www.fortlewis.edu/community_culture/extended_studies/)

## JOHN F. REED HONORS PROGRAM

*Course listings for the John F. Reed Honors Program begin on page 156.*

Program Coordinator: Carol L. Smith  
 Honors Council Chair: Dugald L. Owen  
 Honors Council Members: Pamela Arbeeny, Kendall A. Blanchard,  
 Michael R. Freeman, David A. Gonzales

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; show academic leadership through being a tutor or teaching assistant; 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.

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 General and Exploratory Studies administrative office, Sage 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.

Admission decisions are announced the first Monday in April and the first Monday in December each year.

### 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 5 forums. At least 2 of the forums must be taken at the 420 level.		
Hon 499	Honors Thesis	3
Students must complete 2 credits of Hon 499 in the proposal semester and a minimum of 1 credit in the presentation semester.		
ED 488	Seminar & Practicum in College Teaching	3
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 2 Honors Program-sponsored events each semester they are on campus.



# INTERNATIONAL PROGRAMS

## International Exchanges

Exchanges are reciprocal agreements with partner institutions where students pay their home school tuition and fees, while receiving home school credit. Students are responsible for their travel expenses to their host school, as well as living expenses while on exchange. Financial aid is available to eligible Fort Lewis Students. Foreign students must apply through their home institutions for any financial assistance. Contact the International Programs Office for details.

## Study Abroad

Study abroad programs offer alternative locations and curriculum choices to Fort Lewis students when exchange schools do not meet their needs. While participating on approved study abroad programs, students pay their tuition and program fees to the sponsoring institution or agency.

Students interested in schools in countries other than those mentioned should check with the International Programs Office since the College is expanding its exchange partnerships.

NOTE: International Programs are also administered by SOBA and Sociology.

# **COURSE LISTINGS & DESCRIPTIONS**

## KEY TO COURSE DESCRIPTIONS

Fort Lewis College does not offer all the classes listed in this catalog every semester or every year.

The following pages provide brief descriptions of course offerings open to all students. Course listings are subject to change.

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.

**Corequisite.** A requirement that must be taken concurrently with another course of instruction.

**Cancellation of courses.** The College reserves the right to cancel 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 Dramatic Theatre 1-4**

This course involves initial participation in theatrical production. It includes limited 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.

**BA 407W 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 340 AND BA 353 AND BA 380 AND BA 221

**BA** – department designator

**407** – course number

**W** – suffix indicates course meets General Education W requirement.

**Management Consulting** – Course title

**4** – number of credits awarded for successful completion of the course

**"The study of the concepts..."** – Explanation of course content, or course description.

**(2-4)** (clock hours in lecture per week – clock hours in laboratory experiences per week)

**Prerequisites** – Requirements that must be fulfilled before enrolling in the course. **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.**

**Note:** Not all of the above information may be noted in each description.

Additional symbols include:

**N** – Suffix indicates course meets group N general requirements

**Q** – Suffix indicates course meets group Q general requirements

**R** – Suffix indicates course meets group R general requirements

**S** – Suffix indicates course meets group S general requirements

**T** – Suffix indicates course meets group T general requirements

**Tx** – Suffix indicates course meets group Tx general requirements

**Nx** – Suffix indicates course meets group Nx general requirements

**W** – Suffix indicates course meets group W general requirements

A course with two or more letters after the number may qualify for each of the general education requirements indicated. However, courses identified with more than one letter can be used to satisfy only one general education requirement.



## 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)

**Prerequisite:** ACC 225 AND (COMP 150 OR GS 151 OR COMP 126)

### 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)

**Prerequisite:** 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)

**Prerequisite:** ACC 323

### ACC 430W 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. (4-0)

**Prerequisite:** ACC 323 AND BA 221

### ACC 431 Income Tax Accounting II 3

Federal income taxation of partnerships, corporations, S-corporations, estates and trusts, and gifts. (3-0)

**Prerequisite:** ACC 430

### ACC 436W 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)

**Prerequisite:** BA 221 AND 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.

**Prerequisite:** ACC 323

## Agriculture

### AG 101TX 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 4

Basic principles of crop production, concentrating on growth, development, management, utilization and cultural practices dealing mainly with the crops of Colorado. (3-3)

### 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 180N 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 IPM/Weed Control 4

Principles and practices of weed control and integrated pest management. The recognition of important weed and insect pests. (3-3)

### AG 203T 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 & Management 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. (3-3)

### AG 240 Principles of Animal Nutrition 4

Digestive anatomy nutrient sources and requirements of livestock, including ration-balancing and analysis of feedstuffs. (3-3)

**Prerequisite:** 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)

**Prerequisite:** 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 Ag 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 120S Anthropology of the Southwest 3**

This course explores the interacting systems of the Greater Southwest from the perspectives of historical, applied, ethnological, and archaeological anthropology. Students will not only examine the ways that the varied southwestern ecosystems have shaped political-economic activities, cultural practices, and geopolitics over time, but the ways that long-term field studies of the Southwest have shaped the discipline of anthropology. (3-0)

**ANTH 151S Introduction to Anthropology 4**

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. (4-0)

**ANTH 171T 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 201T 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 208N Traditional Ecological Knowledge & Cultural Survival 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 that 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 210R Intro Sociocultural Anthropology 4**

Sociocultural anthropology (also known as ethnology) 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 anthropology serves the needs of communities around the world. This course provides an introduction to the methods and theories used in ameliorating world problems. An emphasis is placed on career development for those interested in non-academic-based jobs in the field. Note: This course is highly recommended for all anthropology majors and other social science majors. This course counts toward the Research and Ethnology requirements for the major, and can be used to fulfill minor (ethnology) requirements. (3-2)

**ANTH 213S Peasant Societies 4**

This course provides a study of agricultural societies throughout the world and the position of these societies within more complex systems. The instructor may select a specific area for in-depth study to complement a more general, systemic perspective on world peasantries. (4-0)

**ANTH 215R 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 217R 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 225 Intro to Population Issues 1**

Global population issues are important in a world of increasing human numbers and dwindling availability of resources. Course topics include demographic terminology, growth dynamics and reasons for change, family planning policies and technology, the environmental impact of people and their consumption practices, perspectives on food supply and "sustainability" for understanding population issues. Anthropology 225 offers students a one-hour, internet-based course meeting three times in the fall semester and a commitment to three Population Awareness Week programs (evenings) for writing a paper. Students progress at their own pace through the readings (Internet and texts) in preparation for the final exam. Contact Professor Gordon at [gordon\\_d@fortlewis.edu](mailto:gordon_d@fortlewis.edu) to obtain course web address. (1-0)

**ANTH 236TX Intro Physical & 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 243S 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 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 300 Proseminar in Anthropology 2**

This course provides the opportunity for majors, minors and prospective majors to engage in a critical examination of the subfields of anthropology and the possible directions they might take in pursuing one or more of these subfields both during and subsequent to their undergraduate career. The course will prepare students to think seriously about anthropology as part of a liberal arts education, as a vocation and as a rich context for the pursuit of research questions about the human condition. (2-0)

**ANTH 302 Research Issue Evolutionary Anthropology 2**

An exploration of the changing knowledge base of hominid and primate evolution. (2-0)

**Prerequisite:** ANTH 236

**ANTH 303W Anthropological Debates 4**

This course fulfills the anthropology major's Group W composition requirement. It 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 309 Archaeology of Britain 4**

This course provides a survey of the cultural history of the British Isles from the Paleolithic to the Medieval period as seen from the archaeological record. (4-0)

**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. (4-0)

**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 330 Archaeology of the Southwest 4**

This course provides a comprehensive survey of the major archaeological traditions of the prehistoric Southwestern United States, and the environmental and cultural influences that made them distinct. (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 North American Archaeology 4**

This course traces the development of the aboriginal cultures of North America. Emphasis is 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)

**Prerequisite:** ANTH 201

**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 353 Ethnology Of India 4**

While we are overwhelmed by the cultural diversity of the Indian subcontinent, this course focuses on the unity of cultures in the area. Topics include the caste system, contemporary economic and political systems and a brief look at geography, demography, ecology and prehistory. Tribal peoples will be studied in addition to peasantries. (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 370 Quantitative Methods in Anthropology 3**

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 ES 242)

**ANTH 371 Ethnology Of Amazonian South America 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 History 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)

**Prerequisite:** (COMP 126 OR COMP 250 OR COMP 150)

**ANTH 402 Advanced Archaeological Lab Techniques 4**

This course covers laboratory techniques and analysis of prehistoric artifacts, with special emphasis on lithic, ceramic and bone technologies and on the preparation of technical reports. (4-0)

**Prerequisite:** ANTH 259 AND ANTH 403

**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.

**Prerequisite:** 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)

**Prerequisite:** COMP 150

**ANTH 430 Adv Studies, SW Archaeology 4**

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)

**Prerequisite:** ANTH 330

**ANTH 450 Adv Research-Latin American Anthropology 2**

Students will work all term on a focused research project that requires previous knowledge and expertise in Latin American sociocultural systems. Common course readings and class discussions will center around research methods appropriate to work in the broad region of Latin America, to ethical implications for such research and to possible applications of research. Guidance will be provided to those students who wish to formulate their research into a post-baccalaureate Fulbright grant proposal. (2-0)

**Prerequisites:** ANTH 351 AND ANTH 371 AND ANTH 350

**ANTH 455 Adv Research in Anthropology of Gender 2**

Students will work all term on a focused research project that requires familiarity with gender theory and discourse in the social sciences, history, literature or philosophy. Common course readings and discussions will center around feminist research methods and the ethical implications and applications of such research. Guidance will be provided to those students who wish to formulate their research into a post-baccalaureate Fulbright grant proposal. (2-0)

**Prerequisites:** ANTH 355 AND ANTH 217

**ANTH 496 Senior Capstone Seminar in Anthropology 2**

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. (2-0)

**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. project. 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)

**ART109 Basic Design 4**

Introduces design principles and color theory. Two- and three-dimensional design problems are explored. (1-6)

**ART 154 Indian Arts/Crafts I 3**

A course that may include basketry, pottery, weaving, dyeing and other crafts media. Whenever possible, the projects are started with the raw material. This course is the same as SW 154; credit will be given for only one of these courses. (0-6)

**ART 162R Art in the Humanities 3**

Art in the Humanities examines art from diverse cultures and time periods, focusing on how human endeavors in the visual arts arise from and are related to broader historical and cultural contexts. NOTE: This course does not count toward the Art Major. (3-0)

**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 exclusively. May be repeated once for an additional 3 credits. Instructor permission or pre-reqs required. (0-6)

**Prerequisite:** ART 101 AND ART 109

**ART 210 Graphic Design-Desktop 3**

An introduction to graphic design and desktop publishing with the computer, using software such as Quark for page layout and Adobe Photoshop and Adobe Illustrator for graphics. Emphasis will be placed on creating print-ready documents. (0-6)

**Prerequisite:** ART 109

**ART 213 Basic Sculpture 3**

A course in three-dimensional and bas-relief sculpture. Consists of modeling, carving and shaping rigid and pliable material. Some work will use the human form. Pre-requisites or instructor permission required. Art 101 & 109 are required prerequisites for Art majors. (0-6)

**Prerequisite:** ART 101 AND ART 109

**ART 224 Basic Painting 3**

Instruction in various painting media. Students will concentrate on compositional and color problems while working from still life, landscape and figures. (Coursework in this area offered at beginning and advanced levels.) (0-6)

**Prerequisite:** ART 101 AND ART 109

**ART 226 Watercolor Painting 3**

This course deals with traditional and contemporary watercolor techniques. Subject matter will be landscape and still life. Instruction in the various types and uses of papers, tools, techniques, brushes and paints will be given. Suggested pre-reqs: Art 101 and Art 109. (0-6)

**ART 227 Beginning Mural Painting 3**

Mural design and execution will be experienced on an actual location in or near Durango. The processes and problems relating to scale and enlargement will be employed. All paint, brushes and supplies are furnished by the business or client contracted for the mural site. May be repeated once for an additional 3 credits. (0-6)

**ART 231 Introduction to Printmaking 3**

A studio experience exploring the materials and methods basic to making prints. Relief, etching, collographic and silk-screen techniques will be emphasized. (0-6)

**Prerequisite:** ART 101 AND ART 109

**ART 243 Basic Photography 3**

A basic studio course supplemented with lectures presenting an overview of photography. A creative approach designed to introduce students to shooting and printing techniques with silver and non-silver media. (0-6)

**ART 250 Ceramics 3**

Individual projects and forming of pottery of varied styles. Emphasis will be placed on expressive forms. Practice in ceramic procedures and use of materials: throwing, slab, molding, glazing and firing. (0-6)

**ART 253 Jewelry and Metalwork I 3**

This course covers the use of basic jeweler's tools such as saws, files, flexible shaft and buffers. Students will work with a variety of jewelry techniques such as overlay, bezel set stones, pieced metal and metal forming. Supplemental processes such as enameling, etching and metal patinating may also be included. (0-6)

**ART 262R Art History 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 263R Art History 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 273 Art For Elementary Teachers 3**

Contemporary concepts, practices, materials and methods used in the elementary school art program. (2-2)

**ART 292 Independent Media/Research 1-6**

In this course students will work independently on a variety of self-directed projects and/or research. Students may work with any Art faculty member, but must have that faculty member's permission. Students must have successfully completed at least one FLC Art Department course. This course is repeatable up to 3 times.

**ART 296 Sophomore Seminar 1**

Art majors must take Sophomore Seminar after the completion of 17 art credits. The course addresses career planning, health and safety with art materials, and portfolio preparation. A portfolio presentation and review is required (1-0)

**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 Figure Drawing 3**

A continuation of Art 201. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 201

**ART 312 Advanced Design 3**

Problems and theory of design topics. (0-6)

**Prerequisite:** ART 109

**ART 313 Advanced Sculpture I 3**

A continuation of art 213. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 213

**ART 314 Electronic Imaging 3**

Beginning and advanced techniques with Adobe Photoshop. Special effects projects will include photo retouching, scanning, special texturing effects, digital photo capture and other electronic printing technologies. This course may be repeated once for an additional 3 credits. (0-6)

**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 a 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 324 Advanced Painting I 3**

Students will continue to develop their technical knowledge and skills. They will concentrate on color and compositional problems while working with their choice of subject matter. The primary teaching concern will be directed toward the discovery and selection of meaningful subject matter. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 224

**ART 326 Advanced Watercolor Painting 3**

Continuation of Art 226. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 226

**ART 327 Advanced Mural Painting 3**

Continuation of Art 227. Pre-requisites or consent of instructor required. (0-6)

**Prerequisite:** ART 227

**ART 331 Advanced Printmaking I 3**

Advanced development of printmaking skills with opportunity to do specialized work in one or more areas. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 231

**ART 343 Photographic Design 3**

A creative approach to photography generated in basic design principles. A studio course allowing for individual specialization and refinement of basic skills. Experimentation in both black-and-white and color media will be introduced. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 243

**ART 350 Advanced Ceramics I 3**

A continuation of Art 250. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 250

**ART 353 Jewelry and Metalwork II 3**

Students will work with a variety of advanced jewelry techniques such as overlay, bezel set stones, pieced metal and metal forming. Supplemental processes such as enameling, etching, casting and metal patinating may also be included. May be repeated once for credit. (0-6)

**Prerequisite:** ART 253

**ART 363 Modern Painting & Sculpture 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 be considered. (4-0)

**ART 364 Modern Painting & Sculpture 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 American Art History: Colonial 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 1930's. 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 385W Process, Theory, & Criticism 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 101 AND ART 109 AND ART 262 AND ART 263 AND (COMP 150 OR COMP 126 OR COMP 250) AND LIB 150

**ART 401 Interpretive Drawing 3**

A class of interpretive drawing using skills acquired in previous drawing classes and based on a concept approach to drawing. All media and materials used. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 201

**ART 413 Advanced Sculpture II 3**

A continuation of Art 313. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 313

**ART 424 Advanced Painting II 3**

A continuation of Art 324. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 324

**ART 425 Advanced Painting Portrait & Figure 3**

Advanced studies in painting as related to the human portrait and figure. Traditional and contemporary philosophies will be explored. Models will be used. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 224 AND ART 201

**ART 431 Advanced Printmaking II 3**

Continuation of Art 331. May be repeated once for an additional 3 credits. (0-6)

**Prerequisite:** ART 331

**ART 443 Advanced Photographic Design 3**

Continuation of Art 343. May be repeated for an additional 3 credits. (0-6)

**Prerequisite:** ART 343

**ART 450 Advanced Ceramics II 3**

Continuation of Art 350. May be repeated for an additional 3 credits. (0-6)

**Prerequisite:** ART 350

**ART 492 Independent Media/Research 1-6**

In this course students will work independently on a variety of self-directed projects and/or research. Students may work with any Art faculty member, but must have that faculty member's permission. Students must have successfully completed at least one FLC Art Department course. This course is repeatable for additional credits.

**ART 496 Senior Seminar 3**

Advanced study and research in selected topics. Completion of senior portfolio and statement. Senior standing is required. (3-0)

**Prerequisite:** 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.

## Biology

**BIO 105TX 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 110TX 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 112N Intro to Organismic & Evolutionary 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 Cellular & Molecular Biology 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 AND CHEM 150

**BIO 125NX Conservation Biology 4**

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 132T 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 141N 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 202NX 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) AND LIB 150

**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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** BIO 113

**BIO 220 Fundamentals Of Ecology 4**

A study of the fundamental relationships among organisms and their environments. Lab will include an introduction to field methods, sampling, analyses of data and problem solving in ecology. This course is the same as For 218; credit will be given for only one of these courses. (3-3)

**Prerequisites:** (BIO 206 OR BIO 207) AND MATH 121 AND (MATH 201 OR PSYC 241 OR BA 253 OR MATH 205)

**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 at Mercy Medical Center. 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)

**Prerequisite:** 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)

**Prerequisite:** BIO 233

**BIO 250NX 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. (3-2)

**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 Biology 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 260 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 one 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** BIO 207

**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)  
**Prerequisite:** BIO 113 AND (BIO 206 AND BIO 207 AND BIO 260) OR (BIO 210 AND BIO 260 AND BIO 270) AND CHEM 151

**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)  
**Prerequisite:** 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 at Mercy Medical Center. 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)  
**Prerequisite:** 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 113 AND (BIO 206 AND BIO 207 AND BIO 260) OR (BIO 210 AND BIO 260 AND BIO 270) 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)  
**Prerequisite:** 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)  
**Prerequisite:** BIO 207

**BIO 342 Embryology & Developmental Biology of the Vertebrates 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)  
**Prerequisite:** BIO 207

**BIO 350 Mycology 4**

A survey of the Kingdom Fungi, covering classification, physiology, development, ecology, genetics and environmental relationships peculiar to the fungi. (3-3)  
**Prerequisite:** BIO 206 OR BIO 210 AND CHEM 151

**BIO 360 Bryophytes & Lichens 4**

A course treating the taxonomy, morphology, ecology, reproduction and evolution of the Bryophytes and Lichens. (3-3)  
**Prerequisite:** BIO 206

**BIO 380W Issues in Evolution & Biological 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)  
**Prerequisite:** BIO 112 AND BIO 113 AND BIO 206 OR BIO 207

**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)

**Prerequisite:** 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)

**Prerequisite:** 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 471 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.

**Prerequisites:** BIO 220 AND BIO 302 AND BIO 304

**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)

**Prerequisite:** 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)

**Prerequisite:** 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 one credit hour.

## Business Administration

**BA 101 Business World 4**

This course introduces students to the world of business and how business is influenced by a dynamically changing global environment. It will show how individuals operating within the business environment are impacted by society, politics and the economy. It will also show how business has and is likely to impact society, politics and the economy. (4-0)

**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 220 Speaking in the Business World 2**

This course introduces students to the principles of speech communications with an emphasis on application to organizational contexts. Selectively addressed are the literatures of team communication, interpersonal communication and public speaking. (1-2)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126)

**BA 221 Writing in the Business World 3**

This course orients students to the writing practices of business professionals. Students will examine the different kinds of writing required in the decision-making process and how that writing relates to the intellectual practices, values and social relationships of business professionals. Although the course addresses issues of conceptualization, inquiry and reasoning in decision-making, the emphasis of the course is on learning the language conventions for administrative writing analyses and persuasive communications. (3-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250) AND ACC 225

**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 253Q 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 201Q and Psyc 241Q; credit will be given for only one of these courses. (4-0)

**Prerequisite:** (MATH 110 OR MATH 121 OR MATH 210 OR MATH 221) OR Placement into MATH 121 AND (COMP 150 OR COMP 126 OR GS 151)

**BA 255 Statistical Inference Computer Applications 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 260S 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)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250)

**BA 271R Principles of International 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 one credit hour.

**BA 301 Management & Organizational 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)

**BA 302W 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)

**Prerequisite:** BA 301 AND 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)

**Prerequisite:** 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)

**Prerequisite:** 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 315W 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)

**Prerequisite:** BA 260 AND 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 & Resort Management options. (3-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 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)

**Prerequisite:** 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 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)

**Prerequisite:** 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)

**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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** 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. Application of these ideas is directed toward improving marketing management and decision-making. (3-0)

**Prerequisite:** 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)

**Prerequisite:** 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) AND BA 221 AND (BA 301 OR CSIS 110)

**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. (1-6)

**BA 372W Global Business Seminar 4**

The Global Business Seminar 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)

**Prerequisite:** BA 221

**BA 375 Studies in European Business 3-18**

This course provides appropriate credit for studies completed in one of SOBA's Trimester Abroad programs with European partner schools. It may be repeated once for credit. The exact number of credit hours awarded will be determined by the Dean after review of the study program completed.

**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 226 AND BA 221 AND (ECON 266 OR (ECON 262 AND ECON 272) )

**BA 382 Money, Banking & Finance Institutions 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. This course is the same as Econ 382. Credit will be given for only one of these courses. (4-0)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** 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.  
**Prerequisite:** BA 253 OR BA 353 OR ECON 361
- BA 401W Entrepreneurship & Small Business Management 3**  
How to conceive, initiate, organize, manage and operate a small business. (3-0)  
**Prerequisite:** BA 340 AND BA 353 AND BA 380 AND BA 221
- BA 402 Electronic Commerce 4**  
This course introduces the student to the technical and business considerations for creating a business web site. Technical considerations include web site 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)  
**Prerequisite:** CSIS 322 OR (CSIS 106 OR CSIS 110)
- BA 407W 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)  
**Prerequisite:** BA 340 AND BA 353 AND BA 380 AND BA 221
- BA 415 Management in Action 3-6**  
The study of management principles and their application through research, plant visits and on-site interviews with top management personnel.  
**Prerequisite:** BA 301
- 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.
- BA 439 Marketing & Management 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 AND BA 353
- BA 445W 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 221 AND BA 340
- 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 481W 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)  
**Prerequisite:** BA 380 AND BA 221
- BA 485 Investments & Portfolio Management 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)  
**Prerequisite:** BA 380
- BA 496 Senior Seminar in Strategic Management 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 221 AND BA 260 AND BA 301 AND BA 340 AND BA 353 AND BA 380 AND (BA 446 OR ECON 361 OR BA 485 OR MATH 210 OR MATH 221 OR MATH 350 OR MATH 360)
- 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 one credit hour.

## Chemistry

### CHEM 100 Intro to College Chemistry 1

An introduction to fundamental ideas in chemistry for people who are not ready for Math 110 College Algebra. Study will emphasize the atomic and molecular nature of matter, and will include development of quantitative skills for chemistry study. This course provides suitable preparation for Chem 150 Fundamentals of Chemistry I. (1-0)

### CHEM 123T Chemistry for Consumers 3

Topics of interest to the consumer, with focus on making personal choices of everyday chemicals. Topics 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 125N Environmental Chemistry 4

Chemical terminology and models will be developed and applied to understanding of the impacts of Homo sapiens on the natural world. Topics include natural ecosystems, anthropogenic influences on those ecosystems and how fundamental chemical principles apply to our understanding of environmental issues. Students will work with modern chemical instrumentation on student-designed field projects throughout the semester to explore local environmental issues. This is a chemistry course for people concerned about environmental issues but who are not science majors. (4-0)

### CHEM 150NX Fundamentals of Chemistry 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 Placement into MATH 110 OR MATH 121 OR MATH 201 OR MATH 210 OR MATH 221 OR MATH 222

### CHEM 151TX Fundamentals of Chemistry II: Chemical Reactions 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 Fundamentals of Chemistry I: Problem Solving 1

Supplement to Fundamentals of Chemistry I for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 150

### CHEM153 Fundamentals of Chemistry II: Problem Solving 1

Supplement to Fundamentals of Chemistry II for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 151

### CHEM 250 Organic Chemistry 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 Organic Chemistry II: Biological Chemistry 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)

**Prerequisite:** CHEM 250

### CHEM 252 Organic Chemistry I: Discussion Section 1

Supplement to Organic Chemistry I for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** CHEM 250

### CHEM 253 Organic Chemistry II: Discussion Section 1

Supplement to Organic Chemistry II for students who wish to explore the concepts in greater depth. (1-0)

**Prerequisite:** 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 one credit hour.

### CHEM 300W At the Forefront of Chemical 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 250 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent)

### CHEM 305 Natural Products From Plants 3

A comprehensive study of the biologically active constituents of plants of the Southwest and elsewhere. Medicinal compounds and poisons 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)

**Prerequisite:** CHEM 303 OR 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 251 OR CHEM 304

- CHEM 312 General Biochemistry Lab** 1  
Basic biochemical techniques. (0-3)  
**Prerequisite:** 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)  
**Prerequisite:** 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 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 Physical 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 Physical 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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. (1-0)
- CHEM 381 Intro to Chemistry Research Lab** 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 basic biochemical concepts. Emphasis is placed on protein and carbohydrate structure, enzyme kinetics, membrane properties, biochemical reaction mechanisms, thermodynamic relationships in biochemical systems and nucleic acid chemistry. A problem-solving approach is taken to these topics. (3-0)  
**Prerequisites:** CHEM 313 AND (CHEM 358 OR CHEM 356)
- 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)  
**Prerequisite:** CHEM 304 OR CHEM 251
- CHEM 454 Advanced 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.
- 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)  
**Prerequisite:** 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)  
**Prerequisite:** CHEM 363 AND CHEM 356
- CHEM 465 Instrumental Analytical Chemistry** 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)  
**Prerequisite:** CHEM 365 AND CHEM 360 AND CHEM 300

**CHEM 496 Senior Seminar 1**  
Preparation of library thesis on significant research topic from recent primary literature. Includes chemical abstracts instruction, on-line literature searching, advanced library techniques and advanced technical writing and presentations. Also career preparation activities and participation in seminars by visiting scientists. (1-0)  
**Prerequisite:** CHEM 300W

**CHEM 497 Senior Seminar 1**  
Continuation of Chem 496 with emphasis upon presentation of senior thesis to the chemistry community. (1-0)  
**Prerequisite:** 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 one 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)

**COMP125 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 TRST 90 and/or TRST 91 (C- or better), as recommended, before enrolling in Comp 125. Completion of Comp 125 and Comp 126 will fulfill the first-year academic writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126. (3-0)

**COMP 126 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 first-year writing requirement; a student may not receive credit for Comp 150 if s/he has received credit for Comp 125 and Comp 126. (3-0)  
**Prerequisite:** COMP 125

**COMP150 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)

**COMP 250 Academic Inquiry and Writing 4**  
This course guides students through the process of proposing, conducting, and presenting an independent academic research project. (4-0)  
**Prerequisite:** COMP 150 OR COMP 126

## 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 Information 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 (MS) Windows and MS Office software suite (MS Word, MS Excel, MS PowerPoint, MS Access), creation of documents that require the integration of applications using multi-tasking and object linking and embedding, and creating Web sites. Credit may not be received for both CSIS 322 and CSIS 105. (2-4)

**CSIS 106 Intro to Programming in Visual Basic 4**  
Point and click methods will be combined with elementary programming concepts to develop 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)  
**Prerequisite:** MATH 110 OR MATH 121

**CSIS 206 Advanced Programming in Visual Basic 4**  
A second course in Visual Basic.NET programming. Topics include: The .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)  
**Prerequisite:** CSIS 106



**CSIS 230 Object-Oriented Programming 4**

Introduction to object-oriented software development, using the Java programming language. Topics include objects and classes, inheritance, input/output streams, exception handling, collections, graphical user interfaces, threads, and graphics programming. Group programming projects. (2-4)

**Prerequisite:** CSIS 110 OR ENGR 104

**CSIS 238 Computer 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 in terms of register transfer language. This course is the same as Engr 238; credit will only be give for one of these courses. (3-3)

**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 one credit hour.

**CSIS 310 Data Structures 4**

Design and implementation of classic data structures such as stacks, queues, lists, trees and graphs. Application of these data structures to searching, sorting, memory management and other problem domains. Recursion and algorithm complexity analysis are also emphasized. (3-2)

**Prerequisites:** CSIS 230 AND MATH 305

**CSIS 320 Assembly Language Programming 4**

This course uses assembly language programming as a tool to study the Intel 80X86's architecture. Topics include integer arithmetic, branching, memory segmentation, memory models, program translation and linkage, parameter passing mechanisms, interrupts, terminate-and-stay resident routines, math coprocessor, extended memory. (3-2)

**Prerequisite:** CSIS 230 OR CSIS 206

**CSIS 321 Computer Architecture & Organization 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)

**Prerequisite:** CSIS 230 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. CREDIT MAY NOT BE RECEIVED FOR BOTH CSIS 322 AND CSIS 105. (4-0)

**Prerequisite:** ACC 226

**CSIS 328 Fundamentals of Data Communications 4**

A study of the basic concepts and mechanisms of open systems. Signals, communication media and devices, transmission modes, interface standards, data compression, data integrity and security, contention and flow control protocols, overview of local and wide area networks. (3-2)

**Prerequisites:** CSIS 230 AND (MATH 221 OR MATH 210)

**CSIS 330 Windows Programming in .NET 4**

A course in creating Windows applications on the .NET platform using the C# programming language, for students with a background in object-oriented programming. Topics will include Windows forms, menus, dialog boxes, keyboard and mouse events, pages and transforms, multithreading, images and bitmaps, metafiles, clipboard access, fonts, and printing (2-4)

**Prerequisite:** CSIS 230

**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, Java Server Pages. (2-4)

**Prerequisite:** CSIS 230

**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, multithreading (2-4)

**Prerequisite:** CSIS 230

**CSIS 340 Comparative Programming Languages 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)

**Prerequisite:** CSIS 310

**CSIS 350 Database Management Systems 4**

A study of the basic concepts, models, internal mechanisms and language aspects of Database Management Systems. 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)

**Prerequisite:** CSIS 206 OR CSIS 230

**CSIS 360 Software Engineering 1: Systems Analysis 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)

**Prerequisite:** CSIS 230 OR CSIS 206

**CSIS 361W Computers and Human Issues 4**

A study of the broad social, political, ethical and philosophical issues raised by the existence and use of the computer. Topics can include artificial intelligence, human-computer interaction, computer interface issues, computer ethics, ergonomics and the Internet. The course is conducted in a seminar approach with discussion and analysis of articles that pertain to the previously mentioned topics. Students will become familiar with the various forms of writing used with the discipline of Computer Science (scientific technical writing, software documentation and help screens, progress reports, proposals, journal articles). Students will use presentation software, Internet publishing tools and a state-of-the-art word processing software in comprehensive writing exercises. Hands-on experience with the Internet and related components is also an integral part of this course. (4-0)

**Prerequisites:** (COMP 150 OR COMP 126 OR COMP 250) AND (CSIS 230 OR CSIS 206) AND (LIB 150 OR LIB equivalent)

**CSIS 370 Software Engineering 2: Systems 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)

**Prerequisite:** 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)

**Prerequisite:** CSIS 230

**CSIS 402 Electronic Commerce 4**

This course introduces the student to the technical and business considerations for creating a business web site. Technical considerations include web site design and structure strategies, web security, EDI and payment system implementation and 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)

**Prerequisite:** CSIS 322 OR (CSIS 106 OR CSIS 110)

**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)

**Prerequisite:** CSIS 310

**CSIS 425 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. (4-0)

**Prerequisites:** CSIS 322 AND ACC 323

**CSIS 428 Computer Networks & Internets 4**

A detailed study of local and wide area networks and of the Internet's underlying protocols. 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, World Wide Web pages and browsers. (2-4)

**Prerequisite:** CSIS 328

**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)

**Prerequisite:** 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)

**Prerequisite:** CSIS 310

**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 CS 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 170S 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 201Q 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)  
(Placement into MATH 110 OR TRS 92)

**ECON 262 Principles of Economics-Micro 2**

An introductory course in price theory. Topics include opportunity cost, demand, supply, markets, elasticities and the organization of markets. This is a half semester course for which credit is earned by completing the first half of Econ 266D. For transfer students who have only had macro. Consent of instructor. (2-0)

**ECON 266S 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 the balance of payments. (4-0)

**ECON 272 Principles of Economics-Macro 2**

An introductory course on national income analysis. Included are income flows, macro economic equilibrium, monetary and fiscal policy and balance of payments. This is a half semester course for which credit is earned by completing the second half of Econ 266D. For transfer students who have only taken micro. Consent of instructor. (2-0)

**ECON 307 Evolution of Economic Thought 4**

Traces the evolution of economic thought from the 1600's to the present. Each major school of thought, e.g., Mercantilist, Classical, Marxist, Keynesian, etc., will be analyzed to see how it met the conditions of its time, which concepts were relevant only to that period and which have had enduring relevance. (4-0)

**ECON 310 Economic History of US 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)

**ECON 335 Environmental Economics 4**

This course presents the application of economic theory and analytical tools to a variety of environmental and resource problems. Economic reasoning is used to gain insights into the causes of, consequences of and ways of dealing with environmental problems. The economic tools of cost/benefit analysis are developed and applied to environmental costs and benefits associated with a variety of private and public projects/policies. The ethical implications of these tools are also considered. Students will be expected to conduct an economic analysis of some proposed project/policy. (4-0)

**Prerequisites:** ECON 266 OR (ECON 262 AND ECON 272)

**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)

**Prerequisite:** 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

**ECON 364W 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)

**Prerequisite:** ECON 266 OR (ECON 262 AND ECON 272)

**ECON 369 Public Finance 4**

An analysis of the financing of federal, state and local units of government. Emphasis given to problems of taxation, expenditures and debt management. (4-0)

**Prerequisite:** ECON 266 OR (ECON 262 AND ECON 272)

**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 for credit provided the subject is different on each occasion.

**Prerequisite:** ECON 266 OR (ECON 262 AND ECON 272)

**ECON 371 International Economics 4**

Classical, neoclassical and modern trade theory. Comparative analysis of marketing functions, institutions and structures in different national environments. Exchange rates, import/export monopolies, quotas, tariffs and other foreign fiscal policies. (4-0)

**Prerequisite:** ECON 266 OR (ECON 262 AND ECON 272)

**ECON 382 Money, Banking & Finance Institutions 4**

This course is the same as BA 382. See BA 382 for description. Credit will be given for only one of these courses. (4-0)

**Prerequisite:** ECON 266 OR (ECON 262 AND ECON 272)

**ECON 410 Economics: A Radical Perspective 4**

A course that examines the process of resource allocation from the perspective that draws its analysis from Neoclassical Economic theory, Institutional Economics and Marxian Economics. Topics that are examined are power as it arises from the ownership of resources and how power is then transformed into control of institutions, class as a natural consequence of the capitalist system, sexism and racism as they arise from the existence of power and class. Also included are topics that address worker dislocation due to structural change in the economy and work issues related to the post-industrial society. (4-0)

**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 Department Chairperson and Dean. 50 contact hours are the equivalent of one credit hour.

## Education

**ED 200R 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 210S 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. (3-2)

**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 317W Professional Writing & Editing for Educators 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 150 OR COMP 250 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent)

**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 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 Education 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. Prerequisite: Some facility in a non-English language is expected. (3-0)

**ED 333 SW Language 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 Second 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 150 OR COMP 250 OR COMP 126) AND (LIB 150 OR LIB 150 equivalent)

**ED 353 Growth & Development 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. Admission to Teacher Education Program required. (2-1)

**ED 359 Creative Arts for Young Child 2**

Designed to acquaint the student with creative arts for young children with emphasis given to visual arts, creative movement, music and physical education. The process of creative arts and its relationship to the development of young children is considered as developmentally appropriate practices are stressed. (2-0)

**ED 421 Individual Instruction in a Pluralistic Society 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. (4-0)

**ED 424 Language & Math Literacy in Secondary**

The course provides secondary school teachers with the skills to teach reading, writing and math across the various secondary disciplines. Emphasis will be placed on helping teachers recognize the opportunities in their classes where they can highlight improving basic skills in math and reading. Sixty hours of field study are required for the course, thirty of which will be during the scheduled class time. (2-4)

**ED 425 Science and Technology Methods for Elementary School Teaching 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 science and technology in an elementary school setting. In this, students will learn exciting and challenging strategies for teaching science and technology concepts and skills; focusing on critical thinking, problem solving, inquiry, constructivism and reflective practice. Students will plan, implement and assess science and technology lessons in an elementary school setting. The culminating assignment will be a well-developed unit plan for implementation in an elementary school setting. There are 30 hours of field study required for the course, 15 of which will be completed during the scheduled class time. (3-2)

**ED 426 Math & Social Studies Methods for Elementary School Teaching 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; 15 of which will be completed during the scheduled course time. (3-2)

**ED 427 Language Arts Methods 4**

This course focuses on the use of the Colorado Performance Based Standards as well as Colorado Content Standards as they apply to teaching language arts (reading, writing, speaking, listening and viewing) in an elementary school setting. Students will plan, implement, and assess language arts lessons. (4-0)

**ED 451 Preschool, Practicum, Seminar 3**

A minimum of 30 hours in a teaching role is spent in the preschool setting coupled with an on-campus seminar stressing multicultural education. Attention is given to developing the knowledge and skills needed to plan multicultural curriculums for young children. (2-2)

**ED 452 Nutrition for Young Children 3**

The focus of this course is the health and nutrition of young children through providing adequate, appropriate and appealing meals and snacks in group settings. The course includes a study of Colorado DSS licensing requirements, special nutrition needs, food inventories and planning a nutrition program (birth-8 yrs). (3-0)

**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)

**Prerequisite:** 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 Teacher Education program required. (2-1)

**ED 459 Nutrition, Health, Safety of 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 470 Middle School History & Philosophy 2**

This course will provide the prospective middle school teacher with knowledge about the philosophy, historical development and characteristics of the middle school. (2-0)

**ED 488 Seminar & Practicum in College Teaching 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 Advanced 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.

**Prerequisite:** 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. (1-3)

**ED 492 K-Primary School, Lab Experience 1-15**

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 Lab Experience & Seminar Elementary School 1-15**

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. (1-15)

**ED 495 Lab Experience & Seminar Secondary School 1-15**  
Includes observation, participation, teaching and allied activities under the direction of a selected regular teacher in a secondary school in consultation with college consultants. Periodic seminars are offered.

**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.

## 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, orthographic projection, sectional views, dimensioning, layout, working drawings and elementary descriptive geometry. (3-0)

**ENGR 104 Computer Programming for Sci & Engr 3**  
Introduction to programming, problem-solving methods, algorithm development, program design, debugging, documentation and computer solution to mathematical/ engineering problems. Credit will be given for only one of Engr 104 or CSIS 110. (2-2)  
**Prerequisite:** MATH 121 OR MATH 221

**ENGR 105 Engineering Principles & Design 3**  
Solution of fundamental engineering and design problems. Topics include graphical and numerical mathematics, engineering statistics, computer applications, problem solving and design projects. (3-0)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** ENGR 201

**ENGR 205 Surveying I 4**  
Plane surveying methods in engineering that emphasize the measurements, theory and calculations associated with distances and angles 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** ENGR 221

**ENGR 397W Technical Writing and Engineering 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)

**ENGR405 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)

**Prerequisite:** 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. (3-0)

**Prerequisite:** ENGR 405

**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.

## English

**ENGL 116T Introduction Mass Communications 4**

An examination of the development, organization and functions of mass media. This course covers seven mass media: books, newspapers, magazines, movies, recordings, radio and television. It provides both some coverage of current issues and some historical overview of mass media. (4-0)

**ENGL 128R 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 174R African-American Literature 4**

A study of selected 19th and 20th century works by African-American writers. (4-0)

**ENGL 175R Women's Literature 4**

A study of literature by and about women. (4-0)

**ENGL 176R 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 177R 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 180N 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 (Southwestern) 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 Media Literacy 4**

The course will help students develop media literacy; skills that will help them critically consume and create media. (4-0)

**ENGL 221R 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, Albanian. (4-0)

**ENGL 230R Survey of British Literature 4**

An overview of representative British writing from its beginnings to the present. (4-0)

**ENGL 240R 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 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.

**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 instructor. Note: Engl 251 has an extra fee.

**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 instructor.

- ENGL 265S Semantics** 4  
A study of the meaning of language, emphasizing its social and psychological uses and abuses. (4-0)
- ENGL 267 Persuasion: History, Theory, Practice** 4  
This course will introduce students to texts representing Western rhetorical theory and practice. Additionally, this course will focus on developing student writing skills and understanding the role of rhetoric in shaping intellectual, academic, political, and professional domains. (4-0)
- ENGL 268W 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)
- ENGL 270R 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. (2-2)
- 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 280R Literature Of The Southwest** 4  
The American Southwest seen through fiction, poetry, biography and other works by European Americans, Native Americans and Chicanos/as. (4-0)
- ENGL 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.
- ENGL 304 Digital Video Production** 4  
Students will learn the technical aspects, conventions, and aesthetics of digital video production. Consent of instructor. Note: Engl 304 has an extra fee. (4-0)
- ENGL 306 Radio Broadcasting** 4  
An introduction to radio broadcasting through its history, economics, industry, programming and legal issues, with considerable emphasis on production. Consent of instructor. Note: Engl 306 has an extra fee. (4-0)
- ENGL 315 Media Writing: Topics** 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)
- ENGL 317 Mass Communications: Topics** 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)
- ENGL 320 The Novel** 4  
An in-depth study of selected European, British and American novels. (4-0)
- ENGL 330 Continental Literature: Topics** 4  
An in-depth study of selected Biblical, Classical or European texts. Course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. (4-0)
- ENGL 340 19th Century British Lit: Topics** 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)
- ENGL 341 Early Modern Literature: Topics** 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)
- ENGL 345 American Literature: Topics I** 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)
- ENGL 346 American Literature: Topics II** 4  
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 350 Practicum-Newspaper** 1-6  
Directed experience for upper-division students in newspaper work on the 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 instructor.
- ENGL 351 Practicum-Radio** 1-6  
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 instructor.
- ENGL 358 Practicum - Service Learning** 1-6  
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 instructor.
- ENGL 363 Advanced Composition** 4  
This class can accommodate the needs of students from a diversity of majors from the sophomore level up in practicing advanced writing. It provides significant practice of rhetorical techniques and ways to integrate creative thinking, such as poetic language and storytelling techniques, into academic inquiry to enhance academic writing skills. (4-0)



**ENGL 366 Teaching Writing 4**

In this course, students will study writing from a theoretical/disciplinary perspective. We will examine the history of writing instruction, differing philosophies currently at play, the research and assumptions from whence these philosophies derive and practical classroom strategies resulting from the philosophies. Students will be required to write, both formally and informally, for a variety of purposes in this course. (4-0)

**ENGL 378 Young Adult Literature 4**

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 380 Native American Lit: 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. 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 404 Advanced Video Production 4**

Students will concentrate on a particular video topic that may vary from semester to semester. Topics include video activism, documentary, news, short fiction, class-created feature video film, experimental and Web video. Repeatable up to 12 credits. Consent of instructor. Note: This course has an extra fee. (4-0)

**ENGL 416 Media Theory And Criticism 4**

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 417 Media Theory: Topics 4**

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 a specific non-Western tradition in literature. Course content will vary. 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 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 instructor.

**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 instructor.

**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 instructor.

**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," "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 instructor.

**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 instructor. (4-0)

**ENGL 477 20th Century 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 Methods & Materials for Teaching HS Engl 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 Group W course. Consent of instructor.

**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.

## Exercise Science

**ES 100 Fitness and Wellness 1**

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 150R Sociocultural Foundations of Human Movement 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 Sport Science Coaching Course. It covers the areas of Coaching Philosophy, Sport Psychology, Sport Pedagogy, Sport Physiology, Sport Managements 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 ASEP certification which is rapidly becoming the required coaching certification. (2-0)

**ES 205 American Red Cross Emergency Responder 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 Basic Athletic Train 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 college, high school and private clinical settings. Students will be instructed in common taping

applications and training room management. (Includes a minimum 50 hour clinical component.) (0-2)

**Prerequisites:** ES 224 AND ES 205

**ES 224 Basic Principles of 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 226 Techniques Coaching Volleyball 2**

The study of history, strategies, rules, methods and organization involved in coaching volleyball. Both theoretical and practical applications will be developed. (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 230 Tech of Coaching Softball 2**

The study of history, strategies, rules, methods and organization involved in coaching softball. Both theoretical and practical applications will be developed. (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 234 Officiating Of Volleyball 1**

Instruction in the rules and practice of the mechanics and skills of officiating volleyball at the high school and college levels. (1-0)

**ES 235 Officiating Of Basketball 1**

Designed to teach the student the rules, skills and mechanics of officiating basketball. (1-0)

**ES 237 Officiating Softball 1**

Designed to provide students with the rules, skills and mechanics for umpiring softball. (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 Muscle Testing 1**  
This course will provide the student with the vocabulary and professional writing skills necessary to document and comprehend a complete muscular evaluation. The student will learn and demonstrate actual muscle testing including origins, insertions and actions and specific tests. (Includes a 200 hour minimum clinical component.) Instructor permission required. Student must be accepted into Athletic Training Education Program. (0-2)  
**Prerequisite:** ES 283
- ES 242Q 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)  
**Prerequisite:** (TRS 92 OR Placement into MATH 110)
- ES 243S 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 Teaching Competencies in Tumbling, & Aquatic Skills 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 Teaching Competencies in Dance, Games, & Non-Traditional Sports 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 Teaching Competencies in Basketball, Soccer, Softball, & Volleyball 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 Teaching Competencies in Fitness, Golf, & Racquet Sports 1**  
A course designed to develop teaching competencies for planning, instruction, behavior management and assessment in fitness, golf and racquet sports. (0-2)
- ES 260 Lifeguard Training 2**  
Students will learn American Red Cross professional lifeguard skills and gain knowledge needed to prevent and respond to aquatic emergencies. (1-2)
- ES 261 Water Safety Instructor 2**  
Water safety instructor's course designed to train and certify (Red Cross) teachers of swimming. (1-2)
- ES 262 Lifeguard Training Instructor 2**  
This course will train and certify instructors to teach American Red Cross Lifeguard Training, CPR for the professional rescuer, community water safety, lifeguarding instructor aid and other water safety courses. (1-2)  
**Prerequisite:** ES 260
- ES 283 Evaluation of Athletic Injuries 3**  
This course will present the student with the techniques required to provide a thorough evaluation of athletic injuries. A standard model for evaluation will be presented. The cognitive aspects of evaluation will be discussed and the psychomotor tasks practiced. (2-2)  
**Prerequisite:** ES 224
- 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 301W 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) AND (LIB 150 OR LIB 150 Equivalency)
- ES 302W 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 GS 151 OR COMP 126) AND (LIB 150 OR LIB 150 equivalency)
- ES 320 Clinical In Manual Therapy 1**  
This course is designed to educate the prospective certified athletic trainer in the role strength training plays in the prevention of athletic injury. Students will be able to apply the concept of periodization; identify the principles of conditioning; and understand the principles of training and conditioning relative to flexibility, strength and cardiorespiratory endurance. (Includes a 200-hr minimum clinical component). Instructor permission required. Student must be accepted into the Athletic Training Education Program. (0-2)  
**Prerequisite:** ES 283

**ES 335 Kinesiology & Biomechanics 4**

An in-depth study of the basic body movements, osteology, applied myology, spatial relations of muscles to joints, aggregate muscle action, kinesiologic 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)

**Prerequisite:** 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**

Concepts involved in learning motor skills, the individual variables which affect this learning and the practice and techniques for improving motor performance. (3-0)

**Prerequisite:** PSYC 157

**ES 345 Legal Aspects of Sports/Physical Education 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)

**Prerequisite:** 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 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)

**Prerequisite:** 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)

**Prerequisite:** ES 360

**ES 363 Computer Applications in Exercise 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)

**Prerequisite:** PSYC 157

**ES 381 Methods/Curriculum for K-12 Physical 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. (2-2)

**Prerequisite:** ES 224

**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 224 AND ES 283 AND ES 360

**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 Capstone Clinical Athletic Train 1**

This course will function to prepare the student for the National Athletic Trainer's Board of Certification Exam by "bringing it all together". Students will be given practice in all aspects of the Certification Examination. (Includes a 200 hour minimum clinical component.) Instructor permission required. Student must be accepted into Athletic Training Education Program. Must be taken in Students last year of course work. (2-0)

**ES 424 Advanced Athletic Training 3**

This course deals with the knowledge and values an athletic trainer must possess in pharmacological applications and general medical conditions. Students will gain knowledge of how to recognize, treat and refer, when appropriate, general medical conditions common to athletes. Student will also develop an awareness of the indications, contraindications, precautions and interactions of medications used to treat the medical conditions. (3-0)

**Prerequisites:** ES 224 AND ES 387

**ES 425 Clinical in Medical Science 1**

This course will provide the athletic training student with the skills and clinical proficiencies necessary to recognize the signs, symptoms and predisposing conditions associated with disease and the utilization of pharmaceutical products. The course focuses on identifying and documenting medications commonly prescribed to athletes and others involved in physical activity. The course also provides the students practice in identification of common medical conditions. Student must be accepted into Athletic Training Education Program. (0-2)

**Prerequisite:** ES 424

**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 college faculty member. The intern's performance will be evaluated by both the organization's supervisor and the assigned college faculty member. Instructor permission required. (3-0)

**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.

**Prerequisite:** 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 Seminar Research Exercise Science 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)

**Prerequisite:** 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.

**Forestry****FOR 218 Fundamentals Of Ecology 4**

A study of the fundamental relationships among organisms and their environments. Lab will include an introduction to field methods, sampling, analyses of data, and problem solving in ecology. This course is the same as Bio 220; credit will be given for only one of these courses. (3-3)

**Prerequisites:** (BIO 206 OR BIO 207) AND MATH 121 AND (MATH 201 OR PSYC 241 OR BA 253)

**General Studies****GS 100 Freshman Seminar 1**

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. (1-0)

**GS 101R 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 102S 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 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.

**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)

**Prerequisite:** GS 250

**GS 310 Leadership in International 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 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. (3-18)

**Prerequisites:** GS 250 AND GS 251

**GS 376 USAC 1-18**

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 1-18**

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 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)

**Prerequisite:** PSYC 241 OR MATH 201 OR BA 253

**GS 496 Interdisciplinary Senior Seminar 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.

## Geography

**GEOG 250T 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 GPS and map construction using PC-based GIS software. (3-3)

**GEOG 271R 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-Based Analysis 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)

**Prerequisite:** 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)

**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-Based Analysis 3**

This course focuses primarily on network analysis and gridbased 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 viewshed analysis. (2-3)

**Prerequisite:** GEOG 300

**GEOG 499 Independent Studies 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 107NX 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 113TX Physical Geology** 4  
The study of geologic processes and materials within the Earth's interior and on the Earth's surface. Laboratory work on minerals, rocks and maps. Field trips. (3-3)
- GEOL 114 Historical Geology** 4  
The geologic history and development of life on Earth. Laboratory work on rocks, fossils and maps. Field trips. (3-3)  
**Prerequisite:** GEOL 113 OR GEOL 107
- GEOL 150N 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 170N 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 180N 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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 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 required.
- GEOL 323 Geomorphology** 4  
The classification, description, nature, origin and development of present landforms and their relationships to underlying structures. Field trips. (3-3)  
**Prerequisite:** 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)  
**Prerequisite:** (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)  
**Prerequisite:** (GEOL 107 OR GEOL 113) AND MATH 121
- GEOL 333 Introductory Paleontology** 3  
The systematic study of fossils, primarily invertebrate fossils, used in the identification and correlation of geologic formations. (2-3)  
**Prerequisite:** 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)  
**Prerequisite:** MATH 121 AND GEOL 202 AND GEOL 113
- GEOL 361 Stratigraphy And Sedimentation** 4  
Sediments and sedimentary rocks--their characteristics and classification; sedimentary processes, tectonics and sedimentation. Stratigraphy--its history, stratigraphic nomenclature, facies relationships and correlation. (3-3)  
**Prerequisites:** GEOL 207 AND GEOL 210
- GEOL 363 Sedimentary Petrology** 4  
The origin, occurrence and classification of sedimentary rocks. (3-2)  
**Prerequisites:** GEOL 208 AND GEOL 210 AND GEOL 361

**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 380W 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 150: OR COMP 250 OR COMP 126) AND (LIB 150 OR LIB 150 equivalency)

**GEOL 401 Natural Resources & Environment 3**

A critical study of the need for development of fossil fuel and industrial mineral deposits and the need to preserve regions in their natural state. (3-0)

**GEOL 405 Geologic Data Analysis/Model by Computer 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)

**Prerequisite:** GEOL 202

**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)

**Prerequisites:** GEOL 207 AND GEOL 210

**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 3**

The qualitative and quantitative aspects of the occurrence of water in the ground. Alternates with Geol 430. (3-3)

**Prerequisite:** GEOL 361

**GEOL 441 Field Geology 6**

The fundamental procedures and practices in geologic mapping. Summer term.

**Prerequisites:** GEOL 210 AND GEOL 337

**GEOL 442 Field Studies 5**

Intensive field work on various geological problems emphasizing interpretation of petrologic and structural relationships. Summer term.

**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)

**Prerequisite:** 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)

**Prerequisite:** 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.

## History

**HIST 140R 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 141R 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 160R Survey 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 170R Survey East Asian Civilization 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 171R Survey East Asian Civilization 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 181N 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 261S Western Civilization 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 262S Tolerance/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 263R Medieval Life-Modern Film & Literature 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 270R 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 271S Latin America 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 Survey 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 281R Survey 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, and 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 305 Mesopotamian Myth/Religion 3**

A study of ancient Near Eastern myth/religion from the beginning of written history in Sumer (Mesopotamia) around 3000 B.C., into the early post-exilic period of the Hebrew Bible (Old Testament) in Israel around 500 B.C. Interconnections, influences and innovations will be explored. This course is the same as RS 305; credit will be given for only one of these courses. (3-0)

**HIST 306 Ancient Women's Religions 4**

A study of ancient women's religious practices and beliefs from Neolithic Europe, Sumer and the ancient Near East, the Greco-Roman world and early Christianity. This course is the same as RS 306; credit will be given for only one of these courses. (4-0)

**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 & Revolutionary America 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 of Modern America 1893-19 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 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 U.S. 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 be given for only one of these courses.

**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 337 Cultural & Intellectual History of America in the 20<sup>th</sup> Century 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 Women Family, Gender in Chinese History 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. This course is the same as RS 355; credit will be given for only one of these courses. (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 Russia in Revolution to 1924 4**

A study of the Russian past in order to understand, from a historical perspective, the events, personalities, ideas and significance of the Russian revolutions and the Soviet Regime to 1924. (4-0)

**HIST 362 Soviet Union: Stalin-Gorbachev 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 363 Collapse of the Soviet Union 3**

An exploration of the collapse of the Soviet Union and of how the ethnic groups of the old Soviet Union, particularly Russians, are seeking to establish themselves as new states within a federation, the Commonwealth of Independent States. (3-0)

**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 Reformation Europe & Wars of Religion 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 396W Philosophy and Methods 4**

An introduction to the study of history, this course serves as the Writing Course for the History Department. 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 multidisciplinary 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 440 Adv Studies in African History 3**

A consideration of fundamental themes in African history through the study of primary and secondary written sources, oral accounts and other types of evidence, and the application of different historiographical approaches. (3-0)

**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 450 Adv Studies in East Asian History 3**

An examination of selected historical topics and issues pertaining to the East Asian world. A senior-level research paper will be required. Course content will vary. Course may be repeated for credit provided the subject matter is different on each occasion. (3-0)

**HIST 465 Adv Studies in European History 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 American History 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)

**Prerequisite:** 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

**MATH 105Q 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)

**Prerequisite:** ACT Math Score OR TRS 92

**MATH 110Q College Algebra 4**

This course covers the topics in algebra necessary for students who plan to enroll in Math 210Q Survey of Calculus or Math 121Q Precalculus. 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)

**Prerequisite:** TRS 92 OR Placement into MATH 110

**MATH 121Q Pre-Calculus 4**

This course covers the topics in algebra and trigonometry necessary for students who plan on enrolling in Math 221Q 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 110Q, with additional emphasis on symbolic methods. In addition, other topics include trigonometric functions, vectors, polar coordinates, parametric equations, and the conic sections. The concept of function, with its multiple representations, will be emphasized. (4-0)

**Prerequisite:** MATH 110 OR Placement into MATH 121

**MATH 201Q 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 253Q and Psyc 241Q. Credit will be given for only one of these courses. (4-0)

**Prerequisite:** MATH 110 OR Placement into MATH 121 OR MATH 121 OR MATH 221 OR MATH 222 OR MATH 210

**MATH 205Q Biostatistics 4**

An introduction to statistics most widely used in biological sciences, including exploratory data analysis, statistical inference, experimental design, nonparametrics and application of statistical software. (4-0)

**Prerequisite:** MATH 110 OR Placement into MATH 121 OR MATH 121 OR MATH 221 OR MATH 222 OR MATH 210

**MATH 210Q 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)

**Prerequisite:** MATH 110 OR MATH 121 OR Placement into MATH 121

**MATH 215Q Math For Elementary 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)

**Prerequisite:** (TRS 92 OR Placement into MATH 110) AND ED 200

**MATH 221Q 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)

**Prerequisite:** MATH 121 OR Placement into MATH 221

**MATH 222Q Calculus II 4**

A continuation of Math 221Q. Techniques and applications of integration, introduction to differential equations and applications, sequences and series, applications using polar and parametric coordinate systems. (4-0)

**Prerequisite:** MATH 221 OR Placement into MATH 222

**MATH 223Q Calculus III 4**

Vectors and multivariable calculus with applications. (4-0)

**Prerequisite:** 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 301W 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)

**Prerequisite:** MATH 221

**MATH 305Q Discrete Math Structures 4**

A study of sets, graphs, trees, combinatorics, probability, recursion, algorithms, mathematical reasoning and modeling computation with applications to computer science. (3-2)

**Prerequisite:** (MATH 221 OR MATH 210) AND (CSIS 110 OR CSIS 106)

**MATH 310Q 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. It will include uses of technology, in particular the graphing calculator and software used in geometric investigations. Note: Students enrolling in Math 310 must have placement into the teacher education program. (3-0)

**MATH 311Q 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)

**Prerequisite:** MATH 221

**MATH 316Q 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)

**Prerequisite:** MATH 221

**MATH 318Q Math for Elementary School Teacher II 3**

A continuation of Math 215Q. Topics will include the use of calculators and computers, discrete math, data analysis, and an introduction to algebra. (2-2)

**Prerequisite:** MATH 215:

**MATH 320Q Numerical Analysis 3**

An introductory course in developing and using numerical techniques for solving problems in mathematics, the physical sciences, engineering, and in other quantitative fields. Topics include approximation of functions by computable functions, zeros of functions, linear algebra and matrix calculations, and difference equations. The use of the computer will be included. (3-0)

**Prerequisite:** MATH 222 OR CSIS 110

**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)

**Prerequisite:** MATH 121 OR MATH 221 OR MATH 222 OR MATH 223

**MATH 327Q 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 n-th 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)

**Prerequisite:** MATH 222

**MATH 342Q Modern College Geometry 3**

A course in college geometry that includes topics in Euclidean and non-Euclidean geometries. (3-0)

**Prerequisite:** MATH 301

**MATH 360Q Intro To Operations Research 4**

Overview of optimization techniques used in operations research. Topics include linear programming, network flow, transportation problems, queuing theory, inventory models, PERT and CPM, dynamic programming, use of statistical computer packages. (4-0)

**Prerequisites:** (MATH 210 OR MATH 221) AND (MATH 201 OR BA 253 OR PSYC 241)

**MATH 387Q Algebraic Structures 4**

A course in abstract algebra including topics from the theories of groups, rings, and fields. Applications will be discussed. (4-0)

**Prerequisite:** MATH 301

**MATH 424Q 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, Divergence and Stokes theorem. (4-0)

**Prerequisites:** MATH 223 AND MATH 301

**MATH 430Q 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)

**Prerequisite:** MATH 223

**MATH 496 Mathematics Senior Seminar 3**

Advanced study and research in selected topics. 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. 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)

**Prerequisite:** 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)

**Prerequisite:** ML 109

**ML 115 Elementary Spanish I 4**

A course in grammar, prose composition, reading, and conversation. Beginning Spanish for students with no previous exposure to Spanish. Development of all four language skills, especially listening and speaking. (4-0)

**ML 116 Elementary Spanish II 4**

Continuation of ML 115. (4-0)

**Prerequisite:** ML 115 OR Placement into ML 116

**ML 118R 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)

**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)

**Prerequisite:** ML 123 OR Placement into ML 124

**ML 128 Conversation I – German 1**

Instruction in everyday conversation. Optional. (1-0)

**Prerequisite:** ML 123

**ML 129 Conversation II – German 1**

Continuation of ML 128. Optional. (1-0)

**Prerequisite:** ML 124

**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)

**Prerequisite:** ML 135

**ML 147 Elementary French I 4**

A course in grammar, prose composition, reading and conversation. (4-0)

**ML 148 Elementary French II 4**

Further study of French with emphasis on reading, composition, and conversation. (4-0)

**Prerequisite:** ML 147 OR Placement into ML 148

**ML 215 Intermediate Spanish I 4**

A course in second-year Spanish with emphasis on grammar review, reading, and conversation. (4-0)

**Prerequisite:** ML 116 OR Placement into ML 215

**ML 216R Intermediate Spanish II 4**

Continuation of ML 215, with greater emphasis on reading and writing. (4-0)

**Prerequisite:** ML 215 OR Placement into ML 216

**ML 219 Intermediate Spanish Conversation 4**

Students will engage in practical every day situations, as well as discussions on current issues and events through interaction. (4-0)

**Prerequisite:** ML 215 OR ML 216

**ML 223 Intermediate German I 3**

Second-year German with emphasis on reading, composition, and conversation. (3-0)

**Prerequisite:** ML 124 OR Placement into ML 223

**ML 224R Intermediate German II 3**

Study of German as a multicultural society. Continuation of ML 223. (3-0)

**Prerequisite:** ML 223 OR Placement into ML 224

- ML 235 Intermediate Japanese I 4**  
Second-year Japanese with emphasis on grammar, composition, reading, listening, speaking, and writing in Hiragana, Katakana, and Kanji. (4-0)  
**Prerequisite:** ML 136
- ML 236 Intermediate Japanese II 4**  
Continuation of ML 235 with greater emphasis on grammar, composition, reading, listening, and speaking. (4-0)  
**Prerequisite:** ML 235
- ML 247R Intermediate French I 4**  
A course in second-year French with emphasis on grammar review, reading, writing, and conversation. (3-0)  
**Prerequisite:** ML 148 OR Placement into ML 247
- ML 248 Intermediate French II 4**  
Continuation of ML 247. (3-0)  
**Prerequisite:** ML 247 OR Placement into ML 248
- 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 301W French Composition and Syntax 3**  
Emphasis on advanced reading, grammar, and composition. (3-0)  
**Prerequisite:** 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)  
**Prerequisite:** ML 248
- 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)  
**Prerequisite:** ML 248
- ML 308 Topics in French Literature 3**  
Topics will vary; the course may be repeated for a different topic. (3-0)  
**Prerequisite:** ML 248
- ML 309 Business French 3**  
The goal of this course is to familiarize students with the forms and vocabulary of the French business world such as economics, accounting, manufacturing, tourism, business correspondence, reports, marketing, and transportation. (3-0)  
**Prerequisite:** ML 301
- 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)  
**Prerequisite:** ML 216
- ML 319 Adv Spanish Conversation & 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. Repeatable for credit. (4-0)  
**Prerequisite:** ML 216
- ML 320W 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 and must be taken at Fort Lewis College. No exceptions. (4-0)  
**Prerequisites:** ML 216 AND ML 319
- 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 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)  
**Prerequisite:** ML 216
- 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 333 Adv German Composition and Conversation 3**  
Emphasis on advanced reading and conversation as well as on grammar and composition. (3-0)  
**Prerequisite:** ML 224
- ML 334 Topics In German Literature 3**  
Topics will vary; may be repeated under a different topic. (3-0)  
**Prerequisite:** ML 224
- ML 335 Seminar In German 3**  
Advanced reading and research in selected areas of German Studies. (3-0)  
**Prerequisite:** ML 224
- ML 336 Survey Of Spanish Literature 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 Literature 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 Culture & Civ I 4**

An integrated, interdisciplinary study in Spanish of the cultures of Spain and the Spanish-speaking Americas as reflected in their histories, languages, philosophies, religions, and arts. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic people. (4-0)

**Prerequisites:** ML 319 AND ML 320

**ML 346 Hispanic Culture & Civilization II 4**

An in-depth study of a specific topic related to the cultures of Spain and the Spanish-speaking Americas as reflected in their histories, languages, philosophies, religions and arts. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic American people. (4-0)

**Prerequisites:** ML 319 AND ML 320

**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 under different topics. (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.

**Prerequisite:** ML 247 OR ML 248

**ML 426 20th Century Hispanic Literature 4**

A course on contemporary Hispanic authors. (4-0)

**Prerequisite:** ML 320

**496 ML Senior Seminar In Spanish 4**

Advanced study and research in selected topics. (4-0)

**Prerequisites:** ML 320 AND ML 336 AND 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.

## Music

**MU 101R 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 102R 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 1**

These classes are all designed to provide the student with the basis elements and techniques of performance in each of the media. 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 instructor required. (0-2)

**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 instructor required. (0-2)

**Prerequisite:** MU 103

**MU 105 Concert Choir 1**

Through study and performance each trimester of larger choral compositions. Open to all students. Course is repeatable. (0-3)

**MU 106 Chamber Choir 1**

An ensemble specializing in the performance of small scale choral works. By audition only. Course is repeatable. Consent of instructor and enrollment in concert choir required. (0-2)

**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 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 109, 209, 309, 409 Applied Music 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 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 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 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 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 116 Accompanying 1**  
A course designed to provide ensemble and accompanying experience for piano students. Consent of piano instructor required. (0-3)
- 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 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 119 Jazz 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 120S 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. (0-2)
- 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, fuge, and sonata-allegro. Open to music majors and minors only. Others must have consent of instructor. (5-0)  
**Prerequisite:** 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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 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)  
**Prerequisite:** 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)  
**Prerequisite:** 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 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 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**

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 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 Methods & Principles of Teaching 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 Methods & Principles of Teaching 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 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 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)  
**Prerequisite:** 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 1740 through the 21st century. (3-0)

**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.

**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)  
Prerequisite: 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)  
Prerequisite: MU 349

**MU 415W Literature & Conversation: Writing 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 or arranging for instrumental ensembles. Piano proficiency requirement. (2-0)  
Prerequisite: MU 229

**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 1-18**  
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

**PE 1110F 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.  
Prerequisite: ES 100

**PE 1120S 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.  
Prerequisite: ES 100

**PE 1121S Swimming – Intermediate 1**  
This course is designed to improve your skill and fitness through a series of varied swim instruction sessions, practice and workouts.  
Prerequisite: ES 100

**PE 1122F 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.  
Prerequisite: ES 100

**PE 1210S Dance – Ballroom 1**  
This course is designed to introduce the students to the basic steps, courtesies, etiquette, music and rhythm of ballroom dance.  
Prerequisite: ES 100

**PE 1211S Dance - Country & Western 1**  
This course is designed to introduce the students to the basic steps, courtesies, etiquette, music and rhythm of Country & Western dance.  
Prerequisite: ES 100

**PE 1215S Dance Swing 1**  
This course is designed to introduce the students to the basic steps, lifts, throws, etiquette, music, rhythm & style of ballroom swing.  
Prerequisite: ES 100

**PE 1216S Social Dance 1**  
This course is designed to introduce students to the basic steps, turns, etiquette, music, rhythm and style of social dance.  
Prerequisite: ES 100

**PE 1310F 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.  
Prerequisite: ES 100

**PE 1330F 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.  
Prerequisite: ES 100

**PE 1340F Fitness - Ski Conditioning 1**  
A course designed to help with cardiovascular and muscle conditioning and to prepare you for alpine and cross-country skiing.  
Prerequisite: ES 100

**PE 1350F 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.  
Prerequisite: ES 100

**PE 1360F Fitness - Triathlon Training 1**  
 This course is designed to instruct students in the basics of triathlon training and competing.  
**Prerequisite:** ES 100

**PE 1370F 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.  
**Prerequisite:** ES 100

**PE 1380F 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.  
**Prerequisite:** ES 100

**PE 1390F 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.  
**Prerequisite:** ES 100

**PE 1391F 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.  
**Prerequisite:** ES 100

**PE 1410S Backpacking & Camping 1**  
 The course will provide the student with basic campcraft skills (camp selection, hygiene, cooking, stoves, LNT, shelters), hiking, route finding, map & compass skills, safety & equipment review. Students must also be able to hike with a 45 lb. pack up to 6miles/day.  
**Prerequisite:** ES 100

**PE 1420F Cycling 1**  
 The course will provide the student with introductory concepts of a cycling exercise program to satisfy their individual fitness and activity needs.  
**Prerequisite:** ES 100

**PE 1421F Competitive Mountain Bike Training 1**  
 This course covers medium to advanced biking skills.  
**Prerequisite:** ES 100

**PE 1422F 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.  
**Prerequisite:** ES 100

**PE 1430F Day – Hiking 1**  
 An opportunity to explore the local area as it applies to the hiking trails near campus and Durango.  
**Prerequisite:** ES 100

**PE 1440S Flycasting 1**  
 This course will introduce the student to the sport of fly-fishing, including equipment and techniques.  
**Prerequisite:** ES 100

**PE 1450S Kayaking – Beginning 1**  
 Basic kayaking skills including but, not limited to, paddling strokes, rolling & assisted rescues, self-rescue, basic hydrology and river safety, equipment review.  
**Prerequisite:** ES 100

**PE 1451S 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.  
**Prerequisite:** ES 100

**PE 1460S 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.  
**Prerequisite:** ES 100

**PE 1470S 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).  
**Prerequisite:** ES 100

**PE 1481F 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.  
**Prerequisite:** ES 100

**PE 1490F Run/Cycle/Swim 1**  
 This is a fitness class designed to be accomplished on your individual schedule, utilizing the three activities, run, cycle, and swim. You will pretest and post test your fitness level and determine the change in your personal fitness over class duration.  
**Prerequisite:** ES 100

**PE 1520S 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.  
**Prerequisite:** ES 100

**PE 1530S Basketball 1**  
 This course introduces the student to the basic skills, rules, and strategies of basketball.  
**Prerequisite:** ES 100

**PE 1555S Golf – Beginning 1**  
 Develop the basic fundamentals of your golf swing. Develop a basic swing pattern. Learn a basic knowledge of the rules. Learn the basic etiquette of golf. Develop an awareness of fundamental strategies in course management.  
**Prerequisite:** ES 100

**PE 1560S Gymnastics & Tumbling 1**  
 Gymnastics is designed to teach basic skills on all six apparatus (men's and women's).  
**Prerequisite:** ES 100

**PE 1571S 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.

**Prerequisite:** ES 100

**PE 1580S Self Defense 1**

Active participation in basic self-defense skills, prevention and awareness.

**Prerequisite:** ES 100

**PE 1590S Softball 1**

To learn the fundamental skills involved in the game of softball.

**Prerequisite:** ES 100

**PE 1610S Soccer – Beginning 1**

A course designed to develop the basic skills, rules knowledge, and strategy involved with soccer.

**Prerequisite:** ES 100

**PE 1620S 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.

**Prerequisite:** ES 100

**PE 1621S Tennis – Intermediate 1**

Advanced skills in the game of tennis.

**Prerequisite:** ES 100

**PE 1630S 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.

**Prerequisite:** ES 100

**PE 1631S Volleyball – Intermediate 1**

This course will provide student with a comprehensive explanation and practice of fundamental skills in volleyball and with intermediate understanding and practice of team skills.

**Prerequisite:** ES 100

**PE 1635F 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.

**Prerequisite:** ES 100

**PE 1636S 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.

**Prerequisite:** ES 100

**PE 1710 Varsity Basketball – Men 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1711 Varsity Basketball – Women 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1720 Varsity Crosscountry – Men 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1721 Varsity Crosscountry – Women 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1730 Varsity Football 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1740 Varsity Golf 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1750 Varsity Soccer – Men 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1751 Varsity Soccer – Women 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1755 Varsity Softball 1**

Students must be on a varsity athletic roster. Instructor permission required.

**PE 1760 Varsity Volleyball 1**

Students must be on a varsity athletic roster. Instructor permission required.

## Philosophy

**PHIL 141S 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 244R 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)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126) AND (LIB 150 OR LIB 150 Equivalency)

**PHIL 251S 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 252N 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 261R Philosophy Of Religion 4**

An examination of different philosophical approaches to problems raised by religion. Reading 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 274R 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 297RS Tibetan Buddhism: Philosophy/Situation 6**

This course is designed to investigate the history, cosmology and politics of Tibetan Buddhism through reading, discussions and the experience of visiting sites of significance to these issues. It presents Tibetan Buddhism as a metaphysical system through which a cultural/ethnic group sees and lives in the world in exile and in their historical homeland. This course is the same as PS 297 and RS 297; credit will be given for only one of these courses. Consent of instructor. (0-15)

**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 305W 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)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**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. Consent of instructor. (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. Consent of instructor. (4-0)

**Prerequisite:** 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, History & 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. Consent of instructor. (4-0)

**Prerequisite:** (COMP 150 OR COMP 250 OR COMP 126) AND (LIB 150 OR LIB 150 Equivalency)

**PHIL 377 Contemporary 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. Consent of instructor. (4-0)

**PHIL 379 Modern Philosophy: 17th & 18th 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. Consent of instructor. (4-0)

**PHIL 380 19th Century Philosophy 4**

In this course students will examine the major movements in nineteenth 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? Consent of instructor. (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. Consent of instructor. (4-0)

**PHIL 480W Contemporary Political Thought 4**

An examination of the philosophical and political origins of the political formation of the self, interaction between dominant and minority cultures, and legitimation and consensus in a post-Marxist, post-Capitalist, and post-Colonial world. Focuses on 20th century thinkers such as Foucault, Deleuze and Guattari, Said, Lyotard, Braidotti, and others. PS 387 recommended. This course is the same as PS 480W; credit will be given for only one of these courses. Consent of instructor. (4-0)

**PHIL 496 Senior Seminar 4**

Advanced study and research in selected topics. Consent of instructor. (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 106Tx. (0-2)

**PhSc 105T Physical Sciences 3**

History, processes, and methods of science. Study is made of the development of some of the most important concepts of science, modern developments, problems in science, and problems from science. Students cannot receive credit for both PhSc 105T and PhSc 106Tx. (3-0)

**PhSc 106TX Physical Sciences 4**

History, processes, and the methods of science. Study is made of the development of some of the most important concepts of science, modern developments, problems in science, and problems from science. Students cannot receive credit for both PhSc 105T and PhSc 106Tx or for both PhSc 100 and PhSc 106Tx. (3-2)

**PhSc 115NX Environmental Physical 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 course. (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 206T. (0-2)

**PhSc 205T 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 205T and PhSc 206Tx. (3-0)

**PhSc 206TX 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 205T and PhSc 206Tx or for both PhSc 200 and PhSc 206Tx. (3-2)

**PhSc 405 Cosmic Time Place 3**

Modern science has or will profoundly alter our view of ourselves and our place and time in physical reality. This course describes in non-technical terms the recent developments in cosmology, quantum physics, pre-biotic evolution, and artificial intelligence—these seem likely to have the largest impact on human worldviews. Format, readings from some lay expository works, and class discussion. (3-0)

## 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 217Tx 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)

**Prerequisite:** PHYS 201

### PHYS 217TX Physics - Science & Engineering 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 217Tx 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 & Engineering 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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** MATH 223 AND (PHYS 202 OR PHYS 218)

### PHYS 361 Principles of Electricity & Magnetism 4

The mathematical theory of static electric and magnetic fields, time-dependent fields and electromagnetic radiation. (4-0)

**Prerequisite:** (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)

**Prerequisite:** 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)

**Prerequisite:** 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)

**Prerequisite:** PHYS 320

### PHYS 397W 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)

**Prerequisite:** 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)

**Prerequisite:** 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 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 101S 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 110S U. S. National Government 4

A study of the policies, procedures, politics and problems of the U.S. national government. (4-0)

### PS 120S 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 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 205N 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 250W 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)

**Prerequisite:** PS 101 AND (COMP 150 OR COMP 126 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

### PS 251W 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)

**Prerequisite:** PS 250

### PS 280S 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 297RS Tibetan Buddhism: Philosophy/Situation 6

This course is designed to investigate the history, cosmology and politics of Tibetan Buddhism through reading, discussion and the experience of visiting sites of significance to these issues. It

presents Tibetan Buddhism as a metaphysical system through which a cultural/ethnic group sees and lives in the world in exile and in their historical homeland. This course is the same as Phil 297 and RS 297; credit will be given for only one of these courses. Consent of instructor. (0-15)

### 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 301 Local Government Internship 8-16

Practical half-time or full-time work at the regional, county or municipal government level. Requires a detailed journal and completion of a research paper on a local government topic. May be repeated once for a total of 16 credits provided that the internship is taken with different agencies.

**Prerequisite:** PS 101 OR PS 110 OR PS 120 OR PS 241 OR PS 310 OR PS 330

### PS 310 American Political Behavior 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)

**Prerequisite:** PS 101

### PS 322 International Political Economics 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 Public Administration 4

Role of administration in government policymaking and implementation. Course uses case study method from a variety of policy areas. (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 Constitutional 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 Constitutional Law: Federalism and the Separation of Powers 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 350 State Legislative Internship 16**

Practical, full-time work in the Colorado General Assembly as a legislative intern. Each student works for a lawmaker in either the State Senate or the State House of Representatives. Requires the keeping of a detailed journal and the completion of a research paper.

**Prerequisite:** PS 101 AND PS 110 AND PS 120 AND PS 310

**PS 360 Revolution & The Modern World 3**

Analyzes the origins, tactics, ideologies and results of leftist, bourgeois and rightist revolutionary movements, stressing a comparative and historical approach. (3-0)

**PS 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. PS 280 recommended. This course is the same as WS 365; credit will be given for only one of these courses. (3-0)

**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 280S 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 280S is recommended. (4-0)

**PS 380 Comparative Communist Systems 4**

A comparative study of the dynamics of communist systems focuses on the Soviet Union and Peoples's Republic of China, including dimensions of continuity and change in pre- and post-communist environments. Similarities and differences are analyzed, along with an examination of factors working for and against decentralization. (4-0)

**PS 385 Twentieth-Century Socialisms 3**

An inquiry into the place of modern socialist thought in the western intellectual tradition. Intellectual and historical influences on Marxism are clarified, along with the ambiguities in the legacy left by Marx and Engels. The stillbirth of Marxism is traced from these ambiguities through the major discrepancies in the thought of Lenin, Bernstein, Kautsky and Mao. (3-0)

**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)

**Prerequisite:** 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)

**Prerequisite:** 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. (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; examination of executive bureaucracy. (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 Nature of Law /Judicial Proc 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)

**Prerequisite:** PS 241

**PS 437 National Security 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)

**Prerequisite:** PS 337

**PS 450 National Government Internship 16**

Practical, full-time intern work in Washington D.C., in the national government. Requires the keeping of a detailed journal and the completion of a research paper.

**Prerequisite:** PS 101 AND PS 110 AND PS 422

**PS 480W Contemporary Political Thought 4**

An examination of the philosophical and political origins of the political formation of the self, interactions between dominant and minority cultures and legitimization and consensus in a post-Marxist, post-Capitalist and post-Colonial world. Focuses on 20th century thinkers such as Foucault, Deleuze and Guattari, Said, Lyotard, Braidotti and others. PS 287 recommended. This course is the same as Phil 280; credit will be given for only one of these courses. (4-0)

**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)

**Prerequisite:** PS 251

**PS 496 Senior Seminar 2**

Advanced study and research in selected topics. (2-0)

**Prerequisite:** 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 110S 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 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 (1/2) of the semester. (2-0)

**Prerequisite:** 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)

**Prerequisite:** PSYC 157

**PSYC 241Q 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. This course is the same as Math 201 and BA 253; credit will be given for only one of these courses. (4-0)

**Prerequisite:** TRS 92 OR Placement into Math 110

**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)

**Prerequisite:** PSYC 157 OR PSYC 110

**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 crowding, noise, climate, pollution, and disasters; the 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. (4-0)

**PSYC 265S 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)

**Prerequisite:** PSYC 157

**PSYC 296W 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)

**Prerequisite:** PSYC 157 AND PSYC 241 AND (COMP 150 OR COMP 126 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**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)

**Prerequisite:** PSYC 296

**PSYC 305 Psychology of Intuition 4**

Students will study and write about the psychology and philosophy of intuition. This writing 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)

**Prerequisite:** 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 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)

**Prerequisite:** PSYC 110 OR 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)

**Prerequisite:** 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)

**Prerequisite:** PSYC 296

**PSYC 328 Industrial/Organizational Psychology 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)

**Prerequisite:** (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. The lab will require both laboratory and field work. Instructor permission. (4-0)

**Prerequisite:** PSYC 296

**PSYC 333 Expressive Arts Therapy in the Community 2**

This course is for juniors and seniors who are interested in and/or have experience with special needs populations. After training, art, dance and movement processes will be developed with a group of adults with chronic mental illness. This course is repeatable once for credit. Instructor permission. (2-0)

**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. Instructor permission. (4-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250 OR GS 151) AND (LIB 150 OR LIB 150 Equivalency)

**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)

**Prerequisite:** PSYC 241 AND PSYC 233

**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 parentings influence various dimensions of infancy, childhood and adolescence. (4-0)

**Prerequisite:** PSYC 254

**PSYC 372 Language, Mind and Brain 4**

This interdisciplinary course focuses on the unconscious processes occurring in our minds that allow us to understand and produce language. Topics include animal communication, evolution of language, dyslexia, use of sign language, bilingualism, childhood language acquisition, language disorders caused by brain damage, and hemispheric differences in language processing. (4-0)  
**Prerequisite:** 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)  
**Prerequisite:** (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)  
**Prerequisite:** PSYC 157

**PSYC 386 Psychology of Fatherhood 4**

This course will examine fathers' roles in the family within a cross-cultural perspective. Initially, we will look at various theoretical views to understand fathers; we later focus on the importance of studying fathers; socioeconomic, intellectual, and clinical implications of fathers' roles; cultural belief structures in fathering; and level of fathers' participation in the family. Finally, we will conduct a cross-cultural examination of fathering behaviors and discuss the degree of fathers' participation in childrearing and other household tasks. (4-0)  
**Prerequisite:** (PSYC 241 OR MATH 201 OR BA 253)

**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)  
**Prerequisite:** 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)  
**Prerequisite:** 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 covered include the biopsychosocial model, family and community systems, the health care system and alternate methods of health care delivery. (4-0)  
**Prerequisite:** 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 first summer term. Instructor permission.  
**Prerequisite:** PSYC 387

**PSYC 395 Seminar & Practicum In Clinical Psych 4**

The course provides an opportunity for students to engage in a supervised practicum in cooperation with an area health or human services organization. Weekly seminars will deal with professional issues and ethics common to all settings. Consent of instructor. (4-0)  
**Prerequisite:** PSYC 392 AND PSYC 420

**PSYC 406 Case Studies in Neuropsychology 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)  
**Prerequisite:** 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. (3-2)  
**Prerequisite:** PSYC 387

**PSYC 425 Social Psychology 4**

This 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)  
**Prerequisite:** PSYC 296

**PSYC 426 Sensation And Perception 4**

This course examines human vision, hearing, smell, taste, and touch. While studying these sensory systems, we also consider the perception of art, music, illusions, speech, and pain. Numerous demonstrations and experiments are included in the lab and lecture so that abstract principles can be applied in meaningful, interesting ways. (4-0)  
**Prerequisite:** PSYC 157

**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)  
**Prerequisite:** 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)

**Prerequisite:** PSYC 300

**PSYC 496 Senior Seminar 4**

Advanced study and research in selected topics. Consent of instructor. (4-0)

**Prerequisite:** PSYC 296 AND PSYC 300

**PSYC 498 Thesis 1-6**

Each student will be involved in the development and completion a quantitative research project, a qualitative research experience, a comprehensive literature review, or a community-based agency experience. The focus of this course is to provide students with an opportunity to explore and expand their individual interests within the field of psychology under the direct supervision of a member of the psychology faculty. A research proposal may be repeated for a maximum of six credit hours. Consent of instructor.

**Prerequisite:** 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 244R 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 261R 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 297RS Tibetan Buddhism: Philosophy/Situation 6**

This course is designed to investigate the history, cosmology, and politics of Tibetan Buddhism through reading, discussions and the experience of visiting sites of significance to these issues. It presents Tibetan Buddhism as a metaphysical system through which a cultural/ethnic group sees and lives in the world in exile and in their historical homeland. This course is the same as Phil 297 and PS 297; credit will be given for only one of these courses. Consent of instructor. (0-15)

**RS 305 Mesopotamian Myth/Religion 3**

A study of ancient Near Eastern myth/religion from the beginning of written history in Sumer (Mesopotamia) around 3000 B.C. into the early post-exilic period of the Hebrew Bible (Old Testament) in Israel around 500 B.C. Interconnections, influences, and innovations will be explored. This course is the same as Hist 305; credit will be given for only one of these courses. (3-0)

**RS 306 Ancient Women's Religions 4**

A study of ancient women's religious practices and beliefs from Neolithic Europe, Sumer, and the ancient Near East, the Greco-Roman world and early Christianity. This course is the same as Hist 306; 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 310 Psychology of Religion 4**

In this course we will explore the psychology of spirituality and religious experience. Topics will include the history of 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 is the same course as Psyc 310; credit will be given for only one of these courses. (4-0)

**Prerequisite:** PSYC 110 OR PSYC 157

**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)

**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 U.S. 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 Hist 328; credit will be given for only one of these courses.

**RS 355 East Asian Popular Religion 4**

This course examines East Asian 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. This course is the same as Hist 355; credit will be given for only one of these courses. (4-0)

**RS 382 Dead Sea Scrolls 3**

This course examines the Dead Sea Scrolls in the context of Jewish history, the historical Jesus, and earliest Christianity. (3-0)

- 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 one credit hour.

## Sociology

- SOC 100S 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. Fieldwork is required. (4-0)
- SOC 210W Social Inquiry & Research Methods 4**  
An introduction to quantitative methods used in social science this course serves as one of the Writing Courses for the Department of Sociology/Human Services. The appropriateness and application of various methods will be emphasized. Data collection, reduction, analysis and interpretation will be covered. Emphasis will also focus on interviewing, participant observation, and ethnographic approaches to data collection, and the development of descriptions and interpretations of social settings. Consent of instructor. (4-0)
- SOC 250R 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 275S Family Marriage & Sex-Role Sys 4**  
Analysis of changing patterns of family life and sex roles in contemporary society, of the social sources of these changes, and of their societal and individual consequences. (4-0)
- SOC 279R 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 280S Pop Cult & Mass Communication 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 one credit hour.
- SOC 300W 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 School 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 effected the status of women, historically. (4-0)

**SOC 421 Contemporary 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 Fundamentals 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)

**Prerequisite:** SW 100 OR ML 100

### 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 123R American Indian History 3

The history of Indians of the United States from contact to the present. (3-0)

### SW 125 History 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 131N 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 135R 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, demographics, among others. Emphasis will also be given to creative problem solving that draws on multicultural and interdisciplinary sources. (4-0)

**Prerequisite:** SW 135

### SW 154 Indian Arts And Crafts I 3

This course is the same as Art 154; credit will be given for only one of these courses. For description of course, see Art 154. (0-6)

### SW 181N 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 250NX 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 Bio 250; credit will be given for only one of these courses. (3-2)

### 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 280S Native Americans in the 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)

### SW 282 Hispano Culture of Southwest 3

This course examines the culture of the Hispanos in the Southwest. The material is studied from an ethnohistorical perspective, i.e., how the culture developed from the Spanish colonial period to the present. Ideal culture and real culture are contrasted in the course in order to understand the dynamics of culture and its constant evolution. (3-0)

**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 301W 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)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250) AND LIB 150

**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)

**SW 317 History of American 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)

**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 Western/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)

**SW 323 Southwest Indian History 3**

Studies the history and culture of Native American groups in the Southwest. (3-0)

**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)

**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)

**SW 330 Cowboys, Cattlemen & Pop Culture 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)

**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: America'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 & Practicum 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)

**Prerequisite:** 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)

**SW 355 Development 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)

**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)

**Prerequisite:** (COMP 126 OR COMP 150 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**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 North 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 Lit: 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)

**Prerequisite:** LIB 150 AND (COMP 150 OR COMP 250 OR COMP 126)

**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)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**SW 382 Hispano Literature, Art, Culture 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)

**Prerequisite:** (COMP 126 OR COMP 150 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**SW 384 Southwest History 1868 To Present 3**

This course will cover the political, social and economic history of the Southwest from 1868 to the present. (3-0)

**SW 402 Contemporary Art & Lit of the SW 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)

**Prerequisite:** (COMP 126 OR COMP 150 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**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)

**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)

**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 324; credit will be given for only one of these courses. (3-0)

**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)

**Prerequisite:** (COMP 126 OR COMP 150 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalency)

**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 Dramatic Theatre 1-4**  
This course involves initial participation in theatrical production. It includes limited 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 101R 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 126R 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 4**  
This course is the first in the performing sequence. It introduces students to basic performance techniques including: vocal and physical preparation, alignment and posture, movement for stage, improvisational skills, performance of literature, text analysis, and introductory scene work. (4-0)
- THEA 200 Theatrical Production 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. (3-2)
- THEA 231 Make-up For Stage 2**  
This hands-on course explores stage make-up techniques including old age, stylized, fantasy, disaster, and corrective make-up. In addition to this application, students will also explore make-up design from text to production. (2-0)
- 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. (3-2)
- THEA 240 Ancient & Classical Theatre 4**  
This course is the first in the dramatic literature sequence (240, 340W, and 381). Students taking this course attain a breadth and depth of foundational knowledge of theatre and dramatic literature by examining the various styles and traditions of actors, playhouses, plays, and playwrights from Classical Greece and Asia through the age of enlightenment (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. Time periods covered in this class include: Classical Greek and Roman, classical Asian theatre forms, Medieval drama, Italian Renaissance theatres, Elizabethan drama, Jacobean and Caroline theatre, Spanish theatre, French Neo-classic theatre, Restoration, and Theatre of the Enlightenment. (4-0)
- THEA 280 Interdisciplinary Studies 4**  
Students in this course study theatre forms in the context of the perspective of other disciplines, e.g., political science, philosophy, archaeology, sociology, theology, etc. A group of plays or a theatrical movement may be chosen as a point of focus. Significant readings from relevant literature of other fields are used for this study. The plays or the movement and the society and historical periods in which they arose will become occasions for study from an interdisciplinary perspective. (4-0)
- 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 Theatre Ensemble 1-4**  
This course involves participation in a theatrical production, including various areas of technical theatre and performance. The maturing student is actively involved in theatre production(s) during the semester. Repeatable for up to 12 credits.
- THEA 310 Design For The Theatre 4**  
This class provides an in-depth look at design for the stage. Emphasis will be placed on scenery, lighting, properties, and sound design. This course includes research in art history, time periods, and theatrical styles. Students will present a series of designs and models for those designs. (4-0)
- 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 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 340W Modern Theatre 4**

This course, the second in the dramatic literature sequence (240, 340W, 381) 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 certain English majors. (4-0)

**Prerequisite:** THEA 240

**THEA 366 Dance Technique 2**

In this course the student will be given the opportunity to 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 type of technique taught each session is predetermined by the department and may be chosen from many forms. Students taking this course to satisfy theatre studies electives will be required to take this course twice so as to experience two kinds of dance techniques. Repeatable for up to 12 credits. (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 381 Special Topics: Dramatic Lit 4**

This course examines a group of plays chosen from the canon of dramatic literature which relates to a specific theme or topic. The theme or topic is changed regularly, e.g., war, women, marriage, the family, work, political change, etc. Suitable "Topics" course for certain English majors. (4-0)

**THEA 382 American Indian Theatre 4**

This class will review the literature and history of American Indian Playwrights and theatre artists. Students will first examine the history of Euro-American representations of indigenous peoples; reviewing colonial culture will foreground subsequent readings of Native-centered plays, interviews, and criticism. The class will include videos of Native theatre and performances. (4-0)

**THEA 400 Performance Studies 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 in both on and off-campus situations. Repeatable for up to 12 credits.

**THEA 460 Internship in Theatre 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. (0-12)

**Prerequisite:** 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.

**Prerequisite:** 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.

**Prerequisite:** 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 one credit hour.

## Transitional Studies

Transitional Studies courses are offered through an agreement with Pueblo Community College to allow Fort Lewis College students who do not meet state standards in reading, writing, and/or mathematics to meet their remedial coursework requirements. These courses are letter-graded and a grade of C- or higher is required to meet the state's standards; however, the grades earned in these courses do not count toward the Fort Lewis College grade point average. Enrollment in these courses will count toward the institution's definition of full-time course load but they do not count toward the 120 hours required for graduation.

**TRS 82 Introduction to Algebra**

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)

**Prerequisite:** Placement into TRS 82

**TRS 83 Intro to Algebra: Problem Solving**

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**

This course introduces students to strategies for reading the types of texts assigned in entry-level college courses. (3-0)

**Prerequisite:** Placement into TRS 90

**TRS 91 Intro to Academic Writing**

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)

**Prerequisite:** Placement into TRS 91

**TRS 92 Intermediate Algebra**

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)

**Prerequisite:** TRS 82 OR Placement into TRS 92

**TRS 93 Inter Algebra: Problem Solving**

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

**NOTE:** Prerequisites for ALL TS2 courses include completion of all four TS1 courses (one from each theme); Lib 150; Comp 126, Comp 150, or Comp 250; Q; and Junior Standing.

**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. (2-3)

**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 407 Business & the Environment 4**

This course examines how businesses both create and can help alleviate environmental problems. Among the topics covered are life cycle analysis, full-cost accounting, closed loop production systems, eco-efficiency, and environmental reporting and labeling. Class assignments will include case analyses and student research of business practices at the local and national level. (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 410 Fire in the West 4**

This course is an introduction to issues related to fire from a cultural, ecological, political, and management perspective with emphasis on ecosystems in the West. This course will focus on historical and current perceptions of fire, basic fire science, fire ecology, and political and management issues related to fire including ecological restoration and conservation and how these topics are being applied in different western ecosystems. (4-0)

**TS2N 411 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 (3-0)

## Thematic Studies 2 Culture

**NOTE:** Prerequisites for ALL TS2 courses include completion of all four TS1 courses (one from each theme); Lib 150; Comp 126, Comp 150, or Comp 250; Q; and Junior Standing.

### **TS2R 400 Forgiven 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 403 Spirit of Adventure 4**

This course looks at the role of adventure from historic, economic, nationalistic, colonialist, gendered, and individual perspectives. The culture or spirit of adventure is a phenomenon found in all cultures throughout history, where "to adventure" means to challenge the individual physically, emotionally, and intellectually. Attention is given to gender differences, the role of science and nationalism, economic forces, tourism, and the visual and written productions of adventurers. (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 407 Representations & Power 4**

This course examines representations, particularly of differences as expressed in museum exhibitions, photography, media reports, fiction writing, tourist experiences, National Geographic articles, and

even ethnographic descriptions, as constructions of reality that produce both cultural understanding and misunderstanding. Students are challenged to critically analyze commonplace assertions about what is fact, truth, and reality, and to examine what counts as evidence. (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 409 Non-Western Theatre 4**

Non-Western Theatre explores the histories, theories, and practices of traditional Asian theatre forms including those of India, Japan, China, and various Indonesian and Malaysian countries. Students develop historical, critical, analytical, and expressive knowledge of these theatre forms through lecture/discussion classes and experiential projects. Explorations with mask, shadow, and rod-puppet forms promote sensitivities to non-Eurocentric ways of creating meaning. (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 412 Warrior Dreams 4**

Martial arts practices and practitioners come from crosscultural and interdisciplinary perspectives. Because martial arts play such a predominant, yet varied, global role, students will investigate the history, purposes and meanings of the martial arts for body, mind, spirit, and identity. Students will also explore the ways that martial arts are represented in "popular" culture, such as films and T.V. (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)

## Thematic Studies 2 Systems

**NOTE:** Prerequisites for ALL TS2 courses include completion of all four TS1 courses (one from each theme); Lib 150; Comp 126, Comp 150, or Comp 250; Q; and Junior Standing.

**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 401 Power & Privilege in Literacy 3**

This course examines literacy as a normative practice embedded in and produced by social, cultural, political, and economic systems. Through theoretical, ethnographic, and historical essays exploring the ways that acts of reading and writing are connected to larger systems, students will practice bringing a historically-informed, systems thinking perspective to social-cultural practices, issues and problems. (3-0)

**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 411 Imperialism & Indigenous Peoples 3**

The course examines the impact of Imperialism upon the indigenous peoples and ecology of the Americas. Its focus is upon the cultures and institutions of Spain, England, and United States and their imprint upon people and ecosystems. It focuses on imperialism as a complex system of cultural and biological change (3-0)

## Thematic Studies 2 Technology

**NOTE:** Prerequisites for ALL TS2 courses include completion of all four TS1 courses (one from each theme); Lib 150; Comp 126, Comp 150, or Comp 250; Q; and Junior Standing.

**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 psycho-neuroimmunology. (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)

## Women's Studies

**WS 101S Intro to Women's Studies 4**

This course introduces students to the variety of multidisciplinary questions and practical concerns encompassed by Women's Studies. The course provides an introduction to the history of feminism and seeks to establish a fundamental understanding of how and why feminist theoretical critique has occurred. (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. Though 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 Studies: Theory & Methods 4**

This course provides an overview of the history and development of the project of feminist studies and an introduction to the concepts, methods, and discourse of feminist inquiry. (4-0)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250) AND (LIB 150 OR LIB 150 Equivalent)

**WS 320 Women's Studies Practicum 4-8**

This course provides students with experience in a community organization that serves the needs of women. Students will be involved in human services, applied feminist research, or other activities approved by the advisor and practicum coordinator. The emphasis is upon gaining experiential knowledge through active participation in feminist practice and analyzing this experience in a classroom setting. Practicum may be taken for 4 or 8 credits per term. See notes in Women's Studies curriculum. Students must be enrolled in the Sociology Block Program. This course is the same as Soc 320; credit will be given for only one of these courses.

**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)

**Prerequisite:** HIST 280 OR HIST 281

**WS 351 Gender and Work 4**

Work--in the paid labor force and in the home--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)

**Prerequisite:** (COMP 150 OR COMP 126 OR COMP 250)

**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. Recommended: PS 280S. (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.

**WS 495 WS Senior Seminar 2**

Advanced reading, writing, and seminar discussion centered on integrating the Women's Studies experience with the student's entire undergraduate educational experience. Emphasis will also be placed on looking beyond the bachelor of arts or bachelor of science degree to incorporating the Women's Studies intellectual experience to practical life arenas. Instructor permission is required. (2-0)

**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.

## BOARD OF TRUSTEES FOR FORT LEWIS COLLEGE\*

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\*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.

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 PAUL MARES, Bookstore Manager  
 SUSAN K. MCGINNESS, Director of Counseling and Student Development Center  
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 SHERRI WAGGONER, Registrar  
 HUBERT WILLIAMS, Director of Native American Center  
 AMY YEAGER, Director of Institutional Research  
 CRAIG E. YOUNG, Director of Computing and Telecommunications



## ACADEMIC FACULTY 2005-06

\* *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
- 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
- ARMENT, DONNA LOU, *Librarian and Assistant Professor* (2002)  
B.A., Fort Lewis College, 1994  
M.L.S., Drexel University, 1997
- BARTLETT, WILLIAM R., *Professor of Chemistry* (1978)  
B.A., Luther College, 1965  
Ph.D., Stanford University, 1969
- BARANSKI, JOHN F., *Assistant Professor of History* (2004)  
B.A., Sonoma State University, 1993  
M.A., San Francisco State University, 1996  
Ph.D., University of California, 2004
- 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
- BROOKS, ROBERT WILLIAM, *Assistant Professor of Biomechanics* (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 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
- BUCKHOLT, SUSANNE MARIE, *Assistant Professor of Biology* (2004)  
B.A., Our Lady of the Lake University, 1989  
Ph.D., University of North Carolina/Chapel Hill, 1994
- 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., The University of Arizona, 2001  
Ph.D., The 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, JOHN WILLIAM, *Associate Professor of Biology* (1997)  
B.A., Fort Lewis College, 1977  
M.P.P.M., Yale University, 1979  
Ph.D., University of Oregon, 1988
- 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, *Assistant 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

- CASON, MAGGIE AGNES, *Associate Professor of Teacher Education* (1999)  
 B.S., Missouri Western State College, 1978  
 M.S., University of Wyoming, 1988  
 Ph.D., University of Wyoming, 1999
- 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
- CLARK, KATHERINE ANN, *Assistant Professor of History* (2002)  
 B.A., University of Richmond, 1991  
 M.A., Indiana University, 1995  
 Ph.D., Indiana University, 2002
- 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
- CORMAN, LAWRENCE S., *Professor of Business Administration* (1982)  
 B.A., Texas Tech University, 1976  
 M.S., Texas Tech University, 1977  
 Ph.D., University of North Texas, 1989
- 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
- CROSS, JAMES S., *Assistant Professor of Exercise Science* (1988)  
 B.S., Springfield College, 1974  
 M.S., Queens College, 1983
- 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
- DEAR, JENNIE CYRENE, *Associate Professor of English* (1996)  
 B.A., Williams College, 1983  
 M.A., University of New Mexico, 1991  
 Ph.D., University of New Mexico, 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, *Associate 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
- ELLIS, RICHARD N., *Professor of Southwest Studies* (1987)  
 B.A., University of Colorado, 1961  
 M.A., University of Colorado, 1963  
 Ph.D., University of Colorado, 1967
- 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.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 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 Women's Studies* (1994)  
B.A., University of Colorado, 1987  
M.A., University of New Mexico, 1990  
Ph.D., University of New Mexico, 1996
- FOX, JEFFREY CARL, *Assistant Professor of Political Science* (2002)  
B.A., Brigham Young University, 1992  
M.A., University of Oklahoma, 1996  
Ph.D., University of Oklahoma, 1998
- FREEMAN, MICHAEL RUSSELL, *Associate Professor of Art* (1998)  
B.A., University of Oregon, 1990  
M.A., Indiana University, 1995  
Ph.D., Indiana University, 2000
- FRISBIE, JEFFREY LYNN, *Librarian and Associate Professor* (1994)  
B.S., Northern Michigan University, 1979  
M.L.S., University of Arizona, 1994
- 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
- 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 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, *Assistant 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
- 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, *Director, Special Projects; 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
- 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, *Writing Specialist in the Writing Program*  
B.A., University of California, Berkeley, 1970
- HANKS, BRIAN FREDERIC, *Visiting Instructor of Computer Science*  
B.A., University of California/Santa Cruz, 1980  
M.S., University of California/Santa Cruz, 1987
- HANNULA, KIMBERLY ANN, *Associated 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
- HARTNEY, ANN MARY, *Visiting Instructor in the Writing Program*  
A.B., Hope College, 1982  
M.A., Idaho State University, 1995
- 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
- 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

- HOSSAIN, ZIARAT, *Associate Professor of Psychology* (1994)  
 B.S., Jahangirnagar University, 1981  
 M.S., Jahangirnagar University, 1984  
 M.A., University of Manitoba, 1989  
 Ph.D., Syracuse University, 1992
- 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
- IVERSON, MARTHA SUSAN, *Associate Professor of Physics* (1992)  
 B.A., University of Colorado, 1971  
 Ph.D., University of Colorado, 1976
- 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
- JAMIESON, DAVID W., *Professor of Biology* (1978)  
 A.B., Humboldt State University, 1966  
 M.A., Humboldt State University, 1969  
 Ph.D., University of British Columbia, 1976
- 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 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, *Associate 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, *Visiting Associate Professor of Psychology*  
 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
- LANDRUM, MARGARET COZINE, *Librarian and Associate Professor* (1994)  
 B.A., Louisiana State University, 1970  
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