



FORT LEWIS COLLEGE *Durango, Colorado*

Catalog of Courses
1998-99

FORT LEWIS COLLEGE

1000 Rim Drive
Durango, Colorado 81301-3999

CATALOG FOR THE ACADEMIC YEAR 1998-99

Student Responsibilities

The catalog outlines in detail the course requirements needed to complete the various degree programs offered by Fort Lewis College. If students follow the prescribed courses for a selected major and complete at least 16 credit hours each trimester, they may reasonably expect to complete the degree program within eight trimesters.

To do so, however, students must assume the responsibility to read the catalog, complete a minimum of 128 credits as outlined by the degree program and maintain a minimum grade point average of 2.0 for those courses accepted to meet the requirements for the major.

Students will be assigned an advisor to help them with

the appropriate course selections, but students assume the ultimate responsibility to know and complete all graduation requirements.

Right to Alter Course Listings

Course offerings and requirements at all colleges vary with time and demand. The administration of Fort Lewis College reserves the right to alter course listings as necessary without notice.

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Fort Lewis College
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TABLE OF CONTENTS

	<i>Page</i>
Academic Calendar	4
General Information	9
Admission	13
Fees and Expenses.....	21
Student Financial Aid.....	25
Campus Life	27
Academic Programs and Policies	33
Programs of Study	60
School of Arts and Sciences	54
School of Business Administration	93
School of Education.....	106
Course Listings and Descriptions.....	117
Administration and Faculty.....	171
Index	183
Campus Map	188

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. If you desire a full copy of this report, please notify the Vice President of Students Affairs Office, Fort Lewis College, 1000 Rim Drive, Durango CO 81301-3999.

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 Affirmative Action Director, Fort Lewis College, 970-247-7666 or to the Office for Civil Rights, U.S. Department of Education, 1244 Speer Blvd., Suite 310, Denver, Colorado 80204, 303-844-5695.

FORT LEWIS COLLEGE 1998-99 ACADEMIC CALENDAR

FALL TRIMESTER 1998

Student Orientation	Thursday-Friday, August 27-28
*Classes begin	Monday, August 31
Deadline for adding classes and dropping without record (census date)	Tuesday, September 15
Mid-term grades due	Friday, October 16
Winter Trimester Registration:	
Advising	Monday-Friday, November 2-6
Registration	Monday-Monday, November 9-16
Open, drop/add registration begins	Tuesday, November 17
Thanksgiving Break	Monday-Friday, November 23-27
Last day of classes	Friday, December 11
Final exams	Monday-Friday, December 14-18
Commencement	Saturday, December 19
Final grades due, 9 a.m.	Saturday, December 21

WINTER TRIMESTER 1999

Student Orientation	Thursday-Friday, January 7-8
*Classes begin	Monday, January 11
Deadline for adding classes and dropping without record (census date)	Tuesday, January 26
Mid-term grades due	Friday, February 26
Spring Break	Monday-Friday, March 8-12
Fall Trimester Registration:	
Advising	Monday-Friday, March 22-26
Registration	Monday-Monday, March 29-April
Open, drop/add registration begins	Tuesday, April 6
Last day of classes	Friday, April 23
Final exams	Monday-Friday, April 26-30
Commencement	Saturday, May 1
Final grades due, 9 a.m.	Monday, May 3

1ST FIVE-WEEK SESSION 1999

*Classes begin	Monday, May 3
Deadline for adding classes and dropping without record (census date)	Friday, May 7
Term ends	Friday, June 4
Final grades due, 9 a.m.	Monday, June 7

2ND FIVE-WEEK SESSION 1999

*Classes begin	Monday, June 7
Deadline for adding classes and dropping without record (census date)	Friday, June 11
Term ends	Friday, July 9
Final grades due, 9 a.m.	Monday, July 12

3RD FIVE-WEEK SESSION 1999

*Classes begin	Monday, July 12
Deadline for adding classes and dropping without record (census date)	Friday, July 16
Term ends	Friday, August 13
Final grades due, 9 a.m.	Monday, August 16

*This date is also the deadline for consideration for any changes in tuition classification for the term indicated.

THIS IS A PLANNING CALENDAR ONLY, SUBJECT TO ANNUAL REVISION AND APPROPRIATE CHANGES.



DEGREE PROGRAM CHECKLIST

Index

Degree Checklist 6

FORT LEWIS COLLEGE DEGREE CHECKLIST
RECORDS OFFICE
970-247-7350

NAME _____ ID# _____ CATALOG YEAR _____
MAJOR 1 _____ OPTION _____ CONCENTRATION(S) _____
MAJOR 2 _____ OPTION _____ CONCENTRATION(S) _____
THIS DEGREE CHECKLIST INCLUDES COURSES COMPLETED THROUGH THE _____ TERM.
CURRENT DATE _____ CHECKLIST COMPLETED BY _____

This check list is made up of four parts: total hours earned, General Studies Requirements, major requirements and auxiliary requirements. All four parts must be met to complete degree requirements. Also included is a part for minor requirements if you declare a minor. If you declare a minor, all minor requirements must be met at the same time as degree requirements.

.....
Courses and requirements marked with double asterisks (**) show what courses and requirements you have left to complete.
.....

PLEASE NOTE: THIS IS A CHECKLIST ONLY. THE LISTING AND EXPLANATION OF REQUIREMENTS FOR ANY AND ALL DEGREE PROGRAMS ARE IN THE FORT LEWIS COLLEGE CATALOG.

PART 1 – TOTAL HOURS EARNED

A minimum of 128 credit hours are required for the Bachelor of Arts or the Bachelor of Science degree. Within that 128 semester credit hours a minimum of 50 semester credit hours must be upper division credits. The minimum cumulative grade point average must be 2.00. The minimum grade point average in major courses is a 2.00.

_____ is the number of semester credit hours you have earned.

_____ is the number of upper division semester credit hours you have earned.

_____ is your cumulative grade point average.

_____ is your major courses grade point average.

**_____ is the number of semester credit hours you need to meet the minimum of 128 semester credit hours.

**_____ is the number of upper division credit hours you need to meet the minimum of 50 semester credit hours upper division credits.

**_____ This is checked if you must raise your cumulative grade point average to 2.00.

**_____ This is checked if you must raise your major grade point average to 2.00.

PART IV – AUXILIARY REQUIREMENTS

DEPT/COURSE #	COURSE TITLE	GRADE	CREDIT	DEPT/COURSE #	COURSE TITLE	GRADE	CREDIT

MINOR REQUIREMENTS (if declared)

DEPT/COURSE #	COURSE TITLE	GRADE	CREDIT	DEPT/COURSE #	COURSE TITLE	GRADE	CREDIT



GENERAL INFORMATION

Index

Fort Lewis College Mission Statement.....	10
Educational Purposes.....	10
Enrollment.....	11
History.....	11
Location.....	11
Campus Description.....	11
Trimester Calendar.....	11
The Faculty.....	11
Scholastic Honor Societies.....	11
Accreditations.....	12
Assessment Efforts.....	12

GENERAL INFORMATION

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. Fort Lewis has an enduring commitment to develop and maintain its programs at a level equal to those of other outstanding undergraduate institutions in the nation.

MISSION

The following mission statement has been adopted by the State Board of Agriculture, the governing body of 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 studies 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 of its 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.

FORT LEWIS COLLEGE EDUCATIONAL PURPOSES

Fort Lewis College offers a unique educational experience where academic programs link knowledge and practice. Situated at an historical and cultural confluence in the American Southwest, the College is dedicated to undergraduate education that integrates the traditionally separate disciplines of the liberal arts and professional schools.

The academic program is designed to help students develop an informed and critical capacity to meet the challenges of a rapidly changing world. Because individuals define themselves through what they do, the course of study encourages students to cultivate a sense of self through the knowledge, abilities, and values they will carry to a lifetime of meaningful work. The curriculum consists of three essential components: general education, the major, and free electives.

Through general education students confront issues about life and work in a complex global and technical culture. General education emphasizes:

1. an understanding and appreciation of diverse legacies of culture and expression;
2. a recognition of how individuals and institutions function within broader political, economic, and sociocultural systems;

3. the development of skills and critical capacities to make informed use of the technologies that permeate our lives and society; and
4. an understanding of the natural environment and of the responsibility to sustain a balance between natural resources and human needs.

General education complements the academic major, which provides in-depth mastery of a field of study and continued development of higher order literacies including research, writing, speaking, problem solving, and ethical decision-making. Free electives encourage exploration of academic areas outside the major. The College accomplishes these educational purposes through its traditions of teaching excellence and commitment to close student-faculty and student-student interaction. The College promotes life-long learning for faculty and students alike.

In this context, the College recognizes the primary importance of, and provides wide opportunities for, preparation for a career -- whether it be in the arts, in business, in education, in the sciences, or in any of the many ways a student may desire to serve mankind and self.

ENROLLMENT

Fort Lewis' commitment to providing students with a quality undergraduate education has been acknowledged through the College's steady growth during the past 35 years. In 1962, about 720 students were enrolled at the College. In 1997-98, enrollment was 4,440. The College continues to maintain the personal, quality educational experience that only a small undergraduate school like Fort Lewis can provide.

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 stead, 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. And in 1986, Fort Lewis joined the Colorado State University System under the governance of the State Board of Agriculture. Colorado State University in Fort Collins and the University of Southern Colorado in Pueblo are sister institutions in the system.

Fort Lewis 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, as 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 13,275, 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's surrounded by the Rocky Mountains, yet it's 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 Anasazi Indians, whose ancient pueblo ruins can be found throughout the region. The architecture is set off by the backdrop of the rugged San Juan Mountains, creating a learning environment of incomparable natural beauty.

Academic activities are centered in Hesperus Hall, the Fine Arts Building, the John F. Reed Library, the 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, Outdoor Pursuits and Student Activities.

The on-campus Housing Office, Financial Aid Office, Records Office, Native American Center and Health Center are in Miller Student Center.

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

TRIMESTER CALENDAR

Fort Lewis College operates on a modified trimester plan. The fall and winter trimesters are each about 15 weeks long. The third trimester also is 15 weeks long but is divided into three five-week sessions.

The fall trimester generally begins in late August or early September and ends in mid-December; the winter trimester begins in early January and ends in late April. The three five-week summer sessions extend from about the first of May through early August.

Students who choose to attend all three trimesters can graduate in as few as two and two-thirds calendar years. Those who attend only during the winter and fall trimesters graduate in the traditional four years and often find the long summer a valuable time for employment as well as for a pleasant vacation period.

THE FACULTY

Fort Lewis recruits its faculty from the best colleges and universities in the country. Of the 177 full-time, tenure-track faculty members on campus during 1997-98, 92 percent held the highest degree attainable (doctorates, masters of fine arts) in their disciplines. Many of the Fort Lewis faculty have developed national reputations for excellence in teaching, research and curriculum development. Because Fort Lewis offers only undergraduate programs, faculty members have the time to concentrate on their teaching and to give their students one-on-one attention when needed.

SCHOLASTIC HONOR SOCIETIES

Scholastic honor societies maintain chapters at the College to recognize outstanding academic achievement by Fort Lewis students. Among them are the following:

Beta Alpha Psi - Beta Alpha Psi is a national honor society and a scholastic, professional and accounting fraternity. The objectives of Beta Alpha Psi include the recognition of outstanding academic achievements in the field of accounting; the promotion of association among members and practicing accountants; the provision of opportunities for self-development; and the encouragement of a sense of ethical, social and public responsibilities.

Beta Beta Beta - The Tri-Beta Biological Honor Society was established in 1922 with the goal of encouraging scholarly activity in undergraduate biology education. The Fort Lewis College Chapter, Epsilon Upsilon is among the many chapters that are established nationwide. Membership in the society offers students opportunities to conduct undergraduate research, present findings at local and national meetings, and publish in the Tri-Beta scholarly journal. Tri-Beta activities include trips to scientific laboratories and natural field sites, and well as volunteer work in conservation biology.

Beta Gamma Sigma - The National Honor Society in Business and Management. Founded in 1913, Beta Gamma Sigma encourages and rewards scholarship, promotes advancement of education in business and fosters integrity in the conduct of business operations.

Kappa Mu Epsilon - Mathematics Honor Society. Kappa Mu Epsilon was founded in 1931 to further the interests of mathematics in schools which place their primary interests in undergraduate programs; to educate the undergraduate on the importance mathematics has played in western civilization; to develop an appreciation for mathematics' demand for logical and rigorous thought; to recognize outstanding achievement in mathematics; and to educate members on advances made in the field.

Native American Honor Society - The Fort Lewis College Native American Honor Society was established in 1982 to promote and recognize outstanding scholarship among Native American students on campus. All activities are directed toward public service. Membership is open to junior and senior Native American students with cumulative grade point averages of 3.0 or better.

Phi Alpha Theta - The national history honor society recognizes outstanding scholarship among history students. The Fort Lewis chapter was established in 1964-65 and is the college's oldest, continuously active honor society.

Phi Epsilon Kappa - A national honor society that recognizes outstanding students in Exercise Science. The society is committed to community service as well as providing educational activities for its members. Membership is open to Exercise Science students with a minimum grade point average of a 3.0 within the Exercise Science major.

Phi Kappa Phi - This honor society is the oldest and largest national honor society which recognizes and encourages superior scholarship in all academic disciplines. Established in 1897, Phi Kappa Phi selects members who meet high academic standards from throughout the college community. Fort Lewis College was awarded a chapter of Phi Kappa Phi in 1992, thus recognizing the quality of the college's faculty, students and academic programs.

Phi Sigma Iota (Chapter Chi) - This honor society for foreign language students recognizes outstanding scholarship for those who have at least a 3.0 cumulative grade point average, who have completed at least one junior-level course and who rank in the highest 35 percent of their class in general scholarship.

Psi Chi - The Psychology Honor Society recognizes outstanding scholarship for students majoring in psychology. The society encourages the advancement of psychology through observation, logical thinking and critical - yet tolerant - openmindedness and to continue the effort of understanding human nature.

Sigma Delta Pi (Chapter Kappa Tau) - The Hispanic Honor Society recognizes students majoring in Spanish who have completed at least one junior-level Spanish course and have at least a 3.0 cumulative grade point average in their Spanish courses and overall. Membership in Sigma Delta Pi is the highest academic honor in the field of Spanish studies. The society seeks to develop a better understanding of the language, literature and culture of Spanish-speaking peoples.

Sigma Pi Sigma - Sigma Pi Sigma was founded in 1921 and is the only national physics honor society. It is a fully recognized honor society within the Society of Physics Students, a member of the Association of College Honor Societies, and is an affiliated Society of the American Institute of Physics. Sigma Pi Sigma exists to foster interest in physics at the undergraduate and graduate levels.

Sigma Tau Delta (Chapter Kappa Psi) - The English Honor Society. Its purpose is to honor undergraduates, graduates and scholars in academia, as well as professional writers who have realized accomplishments in linguistics or literary realms of the English language. Fort Lewis College students who are eligible for membership are those who have successfully completed at least 45 hours of course work with a cumulative grade point of at least 3.25.

Sigma Xi - Sigma Xi was founded in 1886 at Cornell University as an honor society for scientists, engineers and mathematicians. It rewards excellence in scientific research and encourages a sense of companionship and cooperation among scientists in all fields.

ACCREDITATION

The College is accredited by the North Central Association of Colleges and Schools. In addition, the School of Business Administration is accredited by the American Assembly of Collegiate Schools of Business. The Chemistry Department offers a bachelor of science degree which is accredited by the American Chemical Society; and the Music Department is accredited by the National Association of Schools of Music. Fort Lewis College also is a member of the American Council of Learned Societies and the Council of Public Liberal Arts Colleges.

ASSESSMENT EFFORTS TO ENSURE QUALITY EDUCATION FOR STUDENTS

To improve instruction and prove that it meets its educational goals, the College regularly assesses students' progress. The College assesses the results of collegewide and departmental programs by using surveys, term papers, senior theses, its own instruments, and nationally standardized tests such as Graduate Record Exams to measure the quality and success of its programs. The College requires all freshmen and seniors to participate in assessments to help the College improve its academic programs and teaching methods. Many departments require their seniors to demonstrate their writing, thinking and values as well as expertise in their major.



ADMISSION

Index

Application Procedures	14
Apply for Admission Electronically	14
Freshmen	14
Transfer Students	16
Former Students	18
Unclassified Students	20
Veteran Students	20
Concurrent (High School) Students	20
Admission Criteria (Chart)	15
Transfer of Credits	16
Articulation Agreement	16
Transfer Agreements	17
Transferring to Other Institutions	17
Transfer Appeals Process	18
Credit by Examination	19
Composition Exemptions	19
Native American Tuition Policy	19
International Students	20
Credit for Military Service	20
Student Orientation Advising and Registration Program (SOAR)	20

APPLICATION

Fort Lewis College adheres to the standards established by the Colorado Commission on Higher Education (CCHE).

Students may apply for admission to Fort Lewis College any time after completion of their junior year of high school. An application should be submitted as early as possible.

Application deadlines:

Fall Trimester	August 1
Winter Trimester	December 1
First Summer Session	April 1
Second Summer Session	May 1
Third Summer Session	June 1

Application deadlines are subject to change.

The required application form usually will be available at the office of any Colorado high school counselor. It can always be obtained from the Admission and Development Office, Fort Lewis College. To request an application, call 1-970-247-7184. The FAX number is 970-247-7179.

Apply for Admission Electronically

You may also apply for admission to Fort Lewis College electronically on the college's World Wide Web page at <http://www.fortlewis.edu>.

Students who wish to live in on-campus housing should apply early and must be accepted by the College before applying for on-campus housing.

STUDENT CLASSIFICATIONS

Freshmen

High school students should:

1. Obtain an application blank from their high school counselor or from Fort Lewis College.
2. Fill out the application for admission and mail it with the \$20 non-refundable application fee to the Admission and Development Office. **Application deadline for the fall trimester is Aug. 1, Dec. 1 for the winter trimester, and April 1, May 1 and June 1 for the summer sessions. Deadlines are subject to change.**
3. Request an official transcript from their high school principal or counselor. (This transcript is to be forwarded directly to the College by the high school.)
4. Take the **American College Test (ACT)** or **Scholastic Aptitude Test (SAT)** and have the results sent to Fort Lewis College. It is suggested that one of these tests be taken in the spring of the junior year of high school. Complete information regarding these tests may be secured from the student's high school counselor or principal, or by writing to: Registration

Department, American College Testing Program, P.O. Box 414, Iowa City, IA 52240, or Registration Department, Scholastic Aptitude Test, Box 592, Princeton, NJ 08541.

The entering freshman class is selected from applicants who, by their records from high school and the American College Test or Scholastic Aptitude Test results, show promise of profiting from, and contributing to, the educational opportunities offered by Fort Lewis College. The Dean of Admission and Development and his advisors base their judgment on the high school record, the rank in class, and the ACT/SAT test results, as well as recommendations and other pertinent information. (See chart on Page 15.)

Those admitted to Fort Lewis College should be high school graduates who have completed 15 acceptable secondary school units with preference being given to students who have followed a **strong college preparatory program**.

The College recognizes the importance of advising high school students, their counselors and instructors sufficiently early so that potential college students can prepare adequately for a successful college career. Therefore, the College has determined high school coursework most useful to college-bound students. Students should understand, however, that the more nearly their curricula meet the recommendations, the better prepared they will be for college.

The annotated chart below presents **RECOMMENDED** coursework for admission to Fort Lewis College. Both prospective students and their counselors should realize that, while specific courses are important for college preparation, of perhaps even greater importance is the manner in which the courses are presented. Studies indicate that even students who take appropriate college preparatory courses often are unprepared for the quality and quantity of reading and writing expected of them in college. **The well-prepared student will be able to read, write and calculate reasonably well before entering college.**

RECOMMENDED Coursework for Prospective Students

ACADEMIC AREA	NUMBER OF UNITS
English (including Speech)	4
Mathematics	2
Natural Science	2
Social Science	2
Modern Language	Encouraged
Computer Science	Encouraged
Academic Units ³	11
Total Units ³	15

These recommendations are based on four years of high school.

¹ The work in English should emphasize both reading and writing. Past experience indicates that college freshmen are unprepared for the quantity of both expected of them.

² College preparatory math should include algebra and geometry and, when a third year is taken, Algebra II.

³ A unit is accrued when a student takes a course five days a week for one academic year. An academic unit is a unit earned in English, modern languages, mathematics, natural science or social science.

Fort Lewis College Admission Criteria

Colorado Commission on Higher Education (CCHE) Admission Index

Test Scores		Overall GPA (on a 4.0 Scale)																																
		1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0			
SAT	ACT	17	18	19	21	23	25	27	29	30	32	34	36	38	39	41	42	44	45	47	48	50	51	53	55	56	58	60	62	65	68			
400	590	11	23	41	44	48	50	52	53	55	57	59	61	62	64	65	67	68	70	71	73	74	76	77	79	81	82	84	86	88	91			
500	620	12	26	43	47	49	51	53	56	58	60	62	64	65	67	68	70	71	72	74	75	77	78	80	82	83	85	87	89	91	94			
630	660	13	27	44	48	50	52	54	56	57	59	61	63	65	66	68	69	71	72	74	75	77	78	80	82	84	85	87	89	91	94			
670	720	14	31	48	49	50	52	54	56	58	60	61	63	65	67	68	70	71	73	74	76	77	79	80	82	84	85	87	89	91	94			
730	730	15	32	49	50	51	53	56	57	59	61	62	64	66	68	70	71	73	74	76	77	79	81	82	84	85	87	89	91	93	96	99		
740	760	16	34	51	52	53	55	57	59	61	63	64	66	68	70	72	73	74	76	77	79	81	82	84	85	87	89	91	93	96	99	102		
770	820	17	37	54	55	56	58	60	62	64	66	67	69	71	73	75	76	78	79	81	82	84	85	87	89	90	92	94	96	97	99	102	105	
830	850	18	38	55	56	57	59	61	63	65	67	68	70	72	74	76	77	79	80	82	83	85	86	88	89	91	93	94	96	98	100	103	106	
860	900	19	41	58	59	60	62	64	66	68	70	71	73	75	77	79	80	82	83	85	86	88	89	91	92	94	96	97	99	101	103	106	109	
910	930	20	42	59	60	61	63	65	67	69	71	72	74	76	78	80	81	83	84	86	87	89	90	92	93	95	97	98	100	102	104	107	110	
940	990	21	45	62	63	64	66	68	70	72	74	75	77	79	81	83	84	86	87	89	90	92	93	95	96	98	100	101	103	105	107	110	113	
1000	1020	22	47	64	65	66	68	70	72	74	76	77	79	81	83	85	86	88	89	91	92	94	95	97	98	100	102	103	105	107	109	112	115	
1030	1050	23	48	65	66	67	69	71	73	75	77	78	80	82	84	86	87	89	90	92	93	95	96	98	99	101	102	104	106	108	110	113	116	
1060	1080	24	50	67	68	69	71	73	75	77	79	80	82	84	86	88	89	91	92	94	95	97	98	100	101	103	105	106	108	110	112	115	118	
1090	1120	25	52	69	70	71	73	75	77	79	81	82	84	86	88	90	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	117	120	
1150	1180	26	54	71	72	73	75	77	79	81	83	84	86	88	90	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	116	119	122	
1170	1190	27	56	73	74	75	77	79	81	83	85	86	88	90	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	116	118	121	124	
1200	1230	28	59	76	77	78	80	82	84	86	88	89	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	116	118	120	123	126	129	
1240	1270	29	61	78	79	80	82	84	86	88	90	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	116	118	120	123	126	129	132	
1280	1310	30	64	81	82	83	85	87	89	91	93	94	96	97	99	100	102	103	105	106	108	110	112	114	116	118	120	122	125	128	131	134	137	
1320	1370	31	67	84	85	86	88	90	92	94	96	97	99	101	102	104	105	107	108	110	112	114	116	118	120	122	124	126	129	132	135	138	141	
1380	1410	32	70	87	88	89	91	93	95	97	99	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	133	136	139	142	145	148	
1420	1510	33	74	91	92	93	95	97	99	101	103	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	139	142	145	148	151	
1520	1660	34	79	96	97	98	100	102	104	106	108	109	111	113	115	117	118	120	122	124	126	128	130	132	134	136	138	140	143	146	149	152	155	
1570	1590	35	83	100	101	102	104	106	108	110	112	113	115	117	119	121	123	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152	154	157
1600	1600	36	86	103	104	105	107	109	111	113	115	116	118	120	122	124	126	127	129	131	133	135	137	139	141	143	145	147	149	151	153	155	157	160

Considered for Possible Admission

Assured Admission

Test Scores: If both an ACT and an SAT are available, we will use the highest test score achieved. Admission to Fort Lewis College is based on the review of your cumulative high school grade point average, your SAT or ACT scores, and your CCHE Index.

Students who have not graduated from high school but who have satisfactorily completed a GED program with a minimum score of 50 overall and no less than 40 in each subject area may be admitted as degree-pursuing students if appropriate ACT or SAT scores are attained.

Transfer Students

College students wishing to transfer to Fort Lewis College should:

1. Request an application form from the Admission and Development Office.
2. Complete the application and send it to the Admission and Development Office with a \$20 non-refundable application fee. **Application deadline for the fall trimester is Aug 1; Dec. 1 for the winter trimester, and April 1, May 1 and June 1 for the summer sessions. Application deadlines are subject to change.** Contact the Office of Admission and Development, 970-247-7184, for specific dates. Students applying late may be assessed a late application fee.
3. Request an official transcript from **each** college or university attended be forwarded to Fort Lewis College to the attention of the Admission and Development Office. Generally, ACT/SAT test results are not required of transfer students who have earned more than 12 semester college credits.
4. If fewer than twelve semester college credits have been completed, students should also have a high school transcript and ACT or SAT results forwarded to the Admission and Development Office.

Applicants with a cumulative scholastic average of C and honorable separation from other colleges and universities may be admitted at the beginning of any term. College course credits that fulfill the requirements for a degree program at Fort Lewis College ordinarily will be acceptable for transfer if grades are C or better. A student with less than 30 semester credits may be reviewed on the high school record if deemed appropriate.

TRANSFER OF CREDITS

For courses to transfer to Fort Lewis College from another collegiate institution the transfer institution must be accredited by a regional accrediting association for colleges and universities such as the North Central Association of Colleges and Schools.

Regular academic courses completed with grades of "C-" or better are generally accepted in transfer to Fort Lewis College. Courses with grades of "D+" or lower will not transfer. The transfer grade point average is incorporated into the Fort Lewis cumulative grade point average. All courses attempted will count in the Fort Lewis cumulative grade point average, even courses that do not transfer. Credit will be allowed in transfer for academic pass/fail courses in which a passing grade has been received. However, these "pass" courses may not be used to meet major, general studies, or auxiliary requirements for graduation. Fort Lewis does not accept vocational, remedial, developmental, or English as a Second Language courses.

Credits more than 10 years old in the student's declared major or auxiliary requirements will not be automatically accepted. The major department at Fort Lewis College must validate these credits. General Studies credits more than 10 years old may be transferred.

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 for an upper-division course at Fort Lewis College but the course will not be given 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.

A maximum of 72 semester credits or equivalent from a community/junior college transfers to Fort Lewis College; however, once a student reaches 72 credits, no further credits can be transferred from a community/junior college. A maximum of 100 semester credits or equivalent from a four-year college transfers to Fort Lewis College; however, once a student reaches 100 credits, no further credits will transfer.

The catalog in effect for graduation requirements for a transfer student is the catalog in effect when the student transfers to Fort Lewis College. The student then follows any subsequent policies governing graduation requirements and effective catalog.

Articulation Agreement with the Colorado Community College and Occupational Education System:

Fort Lewis College has an articulation agreement with the Colorado Community College and Occupational Education System which includes Aims Community College, Arapahoe Community College, Colorado Mountain College, Colorado Northwestern Community College, Community College of Aurora, Community College of Denver, Front Range Community College, Lamar Community College, Morgan Community College, Northeastern Junior College, Otero Junior College, Pikes Peak Community College, Pueblo Community College, Red Rocks Community College, and Trinidad State Junior College. The transfer of credit from these two-year colleges are the same as listed above under "Transfer of Credit" with the following three exceptions.

(1) Fort Lewis accepts the community/junior college general education common core curriculum toward the general studies requirements at Fort Lewis College if the student is a core completer from one of the Colorado two-year colleges under this articulation agreement. Specific transfer guides are in place with these colleges. Copies of these guides are available in the Reference Section of the Fort Lewis library and at the various two-year colleges in Colorado under this articulation agreement.

(2) When a student has not completed the 33 or 34 credit hours in the Colorado Community/Junior College General Education Common Core Curriculum prior to transfer, Fort Lewis College will review and accept common core courses on a course-by-course basis after evaluation of those courses in relation to college requirements. The college will be guided by the following principles: (a) Fort Lewis College will count community/junior college courses

in the same way that it counts equivalent courses offered on its own campus in the degree programs of native students, and (b) Fort Lewis College will count community/junior college courses as indicated in transfer guides and articulation agreements between community colleges and Fort Lewis College.

(3) The community/junior college transfer student under this agreement can graduate under the requirements of the Fort Lewis College catalog of the year the student entered the Colorado community/junior college provided the student is a core completer or has been awarded the Associate of Art or Associate of Science degree and attendance is continuous at the Colorado community/junior college. If the student is absent from the Colorado community/junior college for two consecutive terms, the student is not considered a continuous student. That student must use the current Fort Lewis College catalog in effect when the student matriculated at Fort Lewis College.

Transfer Agreements with Colorado state-supported four-year colleges or universities:

Fort Lewis College has transfer agreements with the state-supported four-year colleges or universities which include Adams State College, Colorado School of Mines, Colorado State University, Mesa State College, Metropolitan State College of Denver, University of Colorado at Boulder, University of Colorado at Colorado Springs, University of Colorado at Denver, University of Northern Colorado, University of Southern Colorado and Western State College. Copies of these agreements are available in the Reference Section of the Fort Lewis library and at the various four-year colleges in Colorado. The transfer of credit from these four-year colleges are the same as listed above under "Transfer of Credit" with the following three exceptions.

(1) Fort Lewis College accepts the completion of the total general education core if the student completed all the lower education requirements at another Colorado public higher education institution under this transfer agreement. However, Fort Lewis College does not accept individual courses with grades of "D+" or less even if those courses are part of the general education core. The completion of the total general education core will be honored but total credits will be evaluated separately. It is the student's responsibility to request documentation from the state-supported four-year college that the student completed the general education core at that state-supported four-year college under this transfer agreement.

2) Fort Lewis College accepts any lower-division course (with a grade of "C-" or better) designated in a state-supported four-year college's catalog as a general education course within a specific content area (e.g. arts and letters, social science, natural science, etc.) to fulfill the credit hour and distribution requirements at Fort Lewis College with the General Studies Requirements listed in this Fort Lewis College catalog. If the state-supported four-year college's catalog does not designate which courses meet general education, it is the student's responsibility to request documentation from the four-year state-supported college that the course(s) meet general education at the Colorado state-supported four-year college under this transfer agreement.

3) The transfer student from a Colorado state-supported four-year college under this agreement can graduate under the requirements of the Fort Lewis College catalog of the year the student entered the Colorado state-supported four-year college provided the student's attendance is continuous at the Colorado state-supported four-year college. If the student is absent from the Colorado state-supported four-year college for two consecutive terms, the student is not considered a continuous student. That student must use the current Fort Lewis College catalog in effect when the student matriculated at Fort Lewis College.

The published transfer guides and agreements state Fort Lewis College's transfer policies in detail.

Transfer Agreements and guides with non-Colorado colleges.

Fort Lewis College also has articulation agreements and transfer guides with San Juan College, New Mexico, and Diné Community College in Arizona. These guides are on file in the Reference Section of Fort Lewis College library and at both two-year colleges. Those published agreements and transfer guides govern transfer policies for those two colleges.

Transferring from Fort Lewis College to Other Institutions:

In cooperation with Colorado State University, Fort Lewis College offers programs in agriculture, forestry, and engineering. In forestry and engineering, a student may take two years of work at Fort Lewis. If the student follows the prescribed program and maintains a 2.5 average, the work will be transferred as a block to Colorado State University at the beginning of the junior year. A grade point average of 2.0 is required for students planning to transfer to CSU under the Guaranteed Transfer Program in agriculture. For more information about the above programs, see the "Programs of Study" section beginning on Page 51 of this catalog.

Forestry

A transfer agreement in forestry between Fort Lewis College and Northern Arizona University is also in effect.

Engineering

Engineering agreements also have been established in cooperation with the Colorado School of Mines, the University of New Mexico, the University of Southern Colorado, New Mexico State University and the University of Colorado at Boulder. By taking a prescribed block of courses at Fort Lewis College in the first two years, a student can transfer to any of these institutions with junior standing if all requirements are met. These programs are, of course, transferable to other schools as well, on the basis of a course-by-course evaluation.

In engineering, Fort Lewis also offers a 3-2 cooperative program in which the student spends three years at Fort Lewis followed by two years at Colorado State University. At the conclusion of the program, the student receives a Fort Lewis College degree in mathematics and a degree from Colorado State University in engineering.

TRANSFER APPEALS PROCESS

The appeals process is explained below. Appeal levels 1, 2 and 3 apply to transfer appeals from Colorado public colleges with which Fort Lewis College has transfer agreements. Appeal levels 1 and 2 apply to transfer appeals from all other accredited colleges.

The student may appeal a decision regarding the transferability of a specific course(s). The student may appeal a decision regarding the placement of a specific course(s). The student may file an appeal regarding Fort Lewis College's failure to provide a transcript evaluation within the designated thirty (30) calendar day period. This thirty (30) calendar day period begins after the date of admission or after all the official transcripts are received, whichever is later.

1. The Departmental Appeal

The student must file an appeal within 15 days of receiving the transcript evaluation by writing the Assistant Registrar, Records Office, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301-3999. In writing the appeal the student must identify name of the college, the course and department number, and the course title. The student must be specific as to the appeal. The student must state what the reasons are for the appeal. Instead of a letter the student may use the "Transfer Evaluation Appeal Form." The "Transfer Evaluation Appeal Form" is available at the Records Office, 108 Miller Student Center. The decisions made in the transcript evaluation will be binding if the student fails to file an appeal within this time frame.

The student is responsible for supplying course descriptions, general education requirements, major requirements, and any other supporting documentation from the student's transferring college with the appeal.

Any appeals will be first reviewed by the Assistant Registrar. Appeals that cannot be resolved by the assistant registrar will be referred in writing to Academic Department Chairs, Assistant or Associate Academic Deans, or Academic Deans.

Fort Lewis College has thirty (30) calendar days to review the student's appeal and inform the student in writing of the decision on the appeal including the rationale for that decision. This thirty (30) calendar day period begins after the written appeal and all supporting documentation has been submitted to the Assistant Registrar.

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. If the college fails to inform the student of the available appeal options, the first appeal decision shall be null and void. The student's request prevails and cannot be overturned by any institutional administrator or committee.

2. The Institutional Appeal

The student may appeal the first appeal decision by writing the Vice President for Academic Affairs, Fort Lewis College, 1000 Rim Drive, Durango CO 81301-3999. 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.

Fort Lewis College must hear and reach a decision on the appeal within fifteen (15) calendar days after the appeal is filed.

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, Fort Lewis College shall inform the student that the student may appeal the decision by writing the governing board.

3. The Governing Board Appeal

The student may appeal the institutional decision by writing the Vice Chancellor for Academic Affairs of the State Board of Agriculture, Colorado State University System, 110 16th Street, Room 640, Denver CO 80202. 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.

The State Board of Agriculture Staff shall review and reach a decision on the appeal within five (5) calendar days after the appeal is filed.

The student will be notified in writing by the State Board of Agriculture 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 State Board of Agriculture's decision.

Former Students

A former student is one who registered for classes at Fort Lewis College at any time in the past but has withdrawn and/or has not been registered during the last two consecutive trimesters. Students in this category must petition to resume studies. Students who have been under academic suspension must also petition to resume studies. If the student has attended other collegiate institutions in the interim, complete transcripts of all work taken must be submitted from each institution attended. Petitions should be submitted to the Office of Admission and Development, according to the deadline on Page 14. Students who apply late may be assessed a late application fee.

Credit By Examination

Credit for some courses may be earned through special examination. This procedure is limited to regular catalog courses, and may not apply to such courses, as Special Topics or Independent Study.

The student should apply to the appropriate department chair, who may assign a faculty member to administer the exam. The chair will assure that the reasons for the course challenge are 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 which he or she has already taken in the regular fashion, regardless of the grade earned previously.

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.

College credit also is awarded for exceptional performance on tests administered by three external testing agencies.

1. 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. For additional information students should consult their high school counselor or write to the College Entrance Examination Board, Box 592, Princeton, NJ 08550.
2. Superior scores on the ACT Assessment Battery also serve as a basis for credit and/or advanced placement. The decision of the College is final in awarding credit by examination. For further information, contact the Admission and Development Office at 970-247-7184.
3. 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 500 or the 50th percentile in natural sciences, humanities, social sciences, history and mathematics will receive 6 semester credits for each examination provided the following stipulations are met:

The examinations must be taken prior to the end of the student's first year at college.

No credit will be granted if college coursework has been taken that covers much of the area covered by the examinations.

Fort Lewis accepts credits completed through the International Baccalaureate Program. The International Baccalaureate is a comprehensive course of study for academically talented high school students in select high schools throughout the world. For each examination on which a score of four or higher is earned, the College will award credit and appropriate course

equivalency. The credit may be used toward the 128 credit minimum for graduation.

Fort Lewis College also grants additional credits on the basis of appropriate results of the Subject Matter Examinations of the College Level Examination Program. Further information may be obtained from the Learning Assistance Center or from C.L.E.P., Box 1821, Princeton, NJ 08540.

Exemptions (for Comp 150)

Students who demonstrate outstanding writing ability may be exempted from Comp 150, entitled "Reading and Writing in College." Exemptions from Comp 150 may be awarded to students who meet one of the following requirements:

1. A score of 4 or 5 on the Advanced Placement Test for English Composition/Literature.
2. A score of 650 or above on the SAT II Writing Test.

OR

3. A score of 4 or higher on the English Exam of the International Baccalaureate Program.

Students who are exempted from Comp 150 by the Advanced Placement Test will receive six credits; students exempted from Comp 150 by the International Baccalaureate will receive four credits in addition to the exemption because that test is accompanied by a year-long writing course. Students who are exempted from Comp 150 by the College's Freshman Writing Placement Test or by the SAT II Writing Test will not receive course credit.

Students who are in the block transfer programs are advised not to accept the Comp 150 exemption, because other colleges or universities may not accept the exemption, thus invalidating the transfer. All students who plan to transfer at any time should be especially careful to check with their advisors before accepting any course exemption.

Native American Students

Fort Lewis College, offers as a matter of policy and in compliance with state law, Native American students, as defined below, full-tuition waivers to attend the institution.

Fort Lewis College adheres to the following definition: "The term Native American shall include all persons of Native American descent who are members of any recognized Native American tribe now under federal jurisdiction, and all persons who are descendants of such members who were, on June 1, 1934, residing within the present boundaries of any Native American reservation, and shall further include all persons of one-half or more Native American blood. Eskimos and other aboriginal people of Alaska shall be considered Native Americans." (United States Code, 1964 Edition, Vol. 6, Title 25, Chapter 14, Section 479, Page 4, 897.)

The College will review all applications from Native American students to determine if they qualify for the full-tuition waiver. If a Native American qualifies according to an appropriate tribal

certification and admission standards, such student will be offered the full-tuition waiver.

International Students

Fort Lewis College is authorized under federal law to enroll non-immigrant international students. In general, the same qualifications for admission are required for international students as for American applicants. A brief statement concerning the admission policies for foreign applicants may be obtained from the Admission and Development Office.

Unclassified Students

Under special circumstances students are permitted to register without having been admitted formally to the College. Usually these are adults whose objectives may be realized by taking a few courses rather than by pursuing a degree. The privilege of continuing may be withdrawn at any time when the accomplishments of a student are not deemed satisfactory. Satisfactory performance as an unclassified student may qualify such a student to apply for regular admission. Unclassified students seeking regular admission must contact the Admission and Development Office according to the application deadlines listed on Page 14 as to the procedure for establishing regular status. Unclassified students may need to seek permission from professors to enroll in classes.

Veteran Students

Fort Lewis College is authorized by the state approving agency according to federal law to educate students receiving benefits through the Veterans Administration. The Veteran's certifying official is located in the Records Office, 970-247-7350.

Credit for Military Service

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.

Concurrent Students

Superior high school juniors and seniors who attend a high school within commuting distance of the campus may be admitted as part-time freshmen to take one or two courses. Concurrent students who wish to be considered for regular admission to the college must meet the same criteria and submit the same application as first-time freshmen students.

Students wishing to participate in this program should obtain further information from the Admission and Development Office or their high school counselor.

Student Orientation Advising and Registration Programs (SOAR)

During the summer months, Fort Lewis College conducts several freshman orientation programs for new freshmen and their parents. The orientations provide an opportunity to register early, make new friends, and meet faculty and staff. Information regarding these special programs is mailed to all accepted freshmen during the spring.

Transfer Student Advising and Registration Programs

Transfer students also will have a couple of opportunities during the summer to get advised and register for classes. Information will be mailed to accepted transfer students during the spring.

**ANY QUESTIONS ABOUT ADMISSION
NOT ANSWERED HERE SHOULD BE
ADDRESSED TO:**

**OFFICE OF ADMISSION AND DEVELOPMENT
FORT LEWIS COLLEGE
1000 RIM DRIVE
DURANGO, COLORADO 81301-3999**

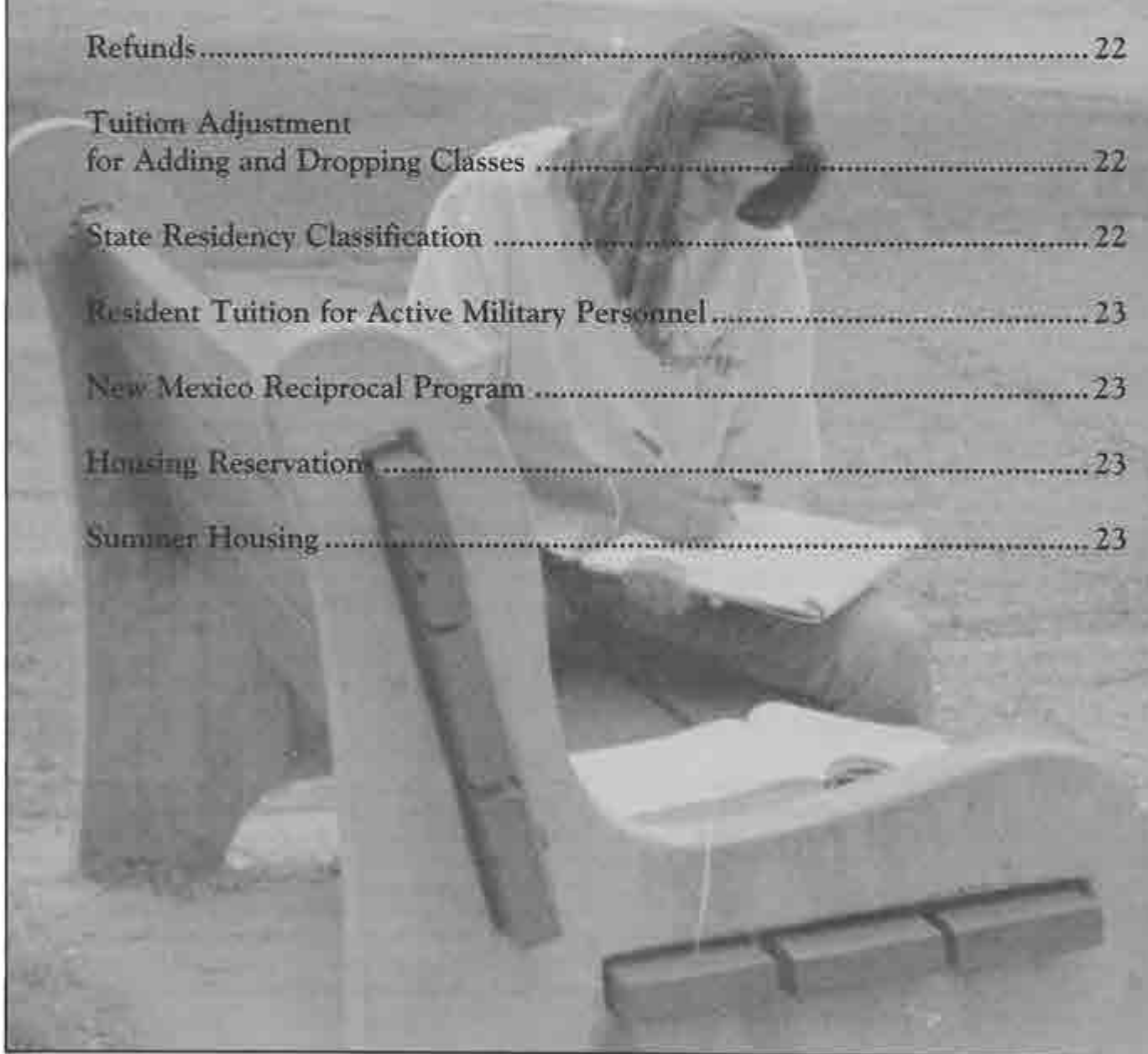
**Phone 970-247-7184
FAX # 970-247-7179**

**E-mail: steinle_h@fortlewis.edu
World Wide Web Page: www.fortlewis.edu**

FEES AND EXPENSES

Index

Tuition and Fees	22
Payment	22
Delinquent Accounts	22
Refunds	22
Tuition Adjustment for Adding and Dropping Classes	22
State Residency Classification	22
Resident Tuition for Active Military Personnel	23
New Mexico Reciprocal Program	23
Housing Reservations	23
Summer Housing	23



FEES AND EXPENSES

Costs for Fort Lewis College students will vary according to the number of trimesters they attend. Specific costs are published annually in the Tuition and Fees Schedule for the academic year and in the Tuition and Fees Schedule for the summer trimester. For details, please consult the appropriate Tuition and Fees Schedule, which may be obtained from the Admission Office.

The Fort Lewis College Foundation has established a monthly Prepayment Budget Installment Program for payment of tuition, fees and on-campus room and board. For additional information, call and ask for Student Alternative Financing at 970-247-7184.

A student, by the act of registration, automatically incurs a financial obligation to the College. This obligation must be satisfied by payment to the College. Those students registering for 8 credits or less will be charged by the credit hour. Students who take over 8 credits, up to and including 18, during either the fall or winter trimester will be charged full tuition and fees. Students registering for more than 18 credits will be assessed an additional charge per credit hour.

Personal expenses such as clothing, travel, social activities, books and supplies, depend on the individual and are in addition to the scheduled expenses. The State Board of Agriculture, governing body for Fort Lewis College, reserves the right to change any fee at any time without formal notice whenever conditions warrant such change.

TUITION AND FEES

Tuition and Fees Brochures are available from the Admission Office, Financial Aid Office, Cashier's Office and the Accounts Receivable Office.

PAYMENT OF FEES

The student will receive a bill and is responsible for the payment of all charges, including tuition, room and board. If parents wish to accept this responsibility, then a copy of the bill must be forwarded by students to their parents. Similarly, payment of the final bill must reach this office by the published census date. The census date is approximately two weeks after the start of the fall and winter Trimesters and the fifth day of each summer session. Only under special circumstances will a request for delayed payment of any charges be considered.

DELINQUENT ACCOUNTS

It is College policy that students who fail to pay financial obligations when due are subject to termination of student status at Fort Lewis College. The College will not register a student, nor provide a transcript to any student or former student, with a past-due financial obligation to the College.

Fort Lewis College is required by the State of Colorado to submit all delinquent accounts to Central Collections at 60 days past due or 30 days past the registration period for the next trimester for current students. Should this become necessary,

reasonable collection costs will be added to the amount due and shall be paid by the debtor. If the State of Colorado obtains judgement from a court of competent jurisdiction, the debtor shall be liable for the collection agency fee as well as reasonable court costs and attorney's fees.

REFUND OF TUITION AND FEES

Students initiating official withdrawals during the fall and winter trimesters will be given a pro-rata refund according to the schedule published in the 1998-99 Tuition and Fees Brochure.

TUITION ADJUSTMENT: ADDING AND DROPPING CLASSES

A student is permitted to change course loads by adding or dropping courses with no grade record during a designated period at the beginning of each trimester. A student's tuition and fees will be adjusted according to the net number of credits for which he or she is registered on the final date for adding courses. If an exception is made which allows a student to add or drop classes subsequent to the designated period, tuition and fees will be assessed for the net credits added, but will not be adjusted for the net credits dropped. **The class-drop process may not be used to withdraw from college.** Policies, procedures, fees, and deadline for adding and dropping courses is published in the Schedule of Courses for each term.

STATE RESIDENCY CLASSIFICATION FOR TUITION PURPOSES

A student is classified as an in-state or out-of-state student for tuition purposes at the time of admission. This classification is based upon information supplied by the student on the application for admission and is made in accordance with the Colorado Tuition Classification Law, CRS Section 23, Article 7, revised May 1995.¹ Institutions of higher education are bound by the provisions of this statute and are not free to make exceptions to the rules set forth.

Once determined, a student's tuition classification status remains unchanged unless satisfactory evidence that a change should be made is presented. A Petition for In-State Tuition Classification should be submitted to the Admission Office for first-time students and to the Records Office for continuing students if a student believes she or he is entitled to in-state status. Students should contact these offices for more information on deadlines and process of petition.

The statute provides that an in-state student is one who has been a legal domiciliary (resident) of Colorado for one year or more immediately preceding the beginning of the term for which the in-state classification is being sought. Persons over 22 years of age or who are emancipated establish their own legal domicile. Those who are under 22 years of age and are unemancipated assume the domicile of their parent or court-appointed legal guardian. An unemancipated minor's parent, therefore, must have a legal domicile in Colorado for one year or more before the minor may be classified as an in-state student for tuition purposes.

Domicile is established when one has a permanent place of habitation in Colorado and the intention of making Colorado one's true, fixed and permanent home and place of habitation. The tuition statute places the burden of establishing a Colorado domicile on the person seeking to establish the domicile. The question of intent is one of documentable fact and needs to be shown by substantial connections with the state sufficient to evidence such intent.

Legal domicile in Colorado, *for tuition purposes*, begins the day after connections with Colorado are made sufficient to evidence one's intent. The most common ties with the state are (1) ownership of residential real property in Colorado, (2) permanent employment in Colorado, (3) compliance with laws imposing a mandatory duty on any domiciliary of the state, such as the driver's license law and the vehicle registration law, (4) Colorado voter registration, and (5) most important, payment of Colorado state income taxes as a resident by one whose income is sufficient to be taxed. **Caution:** payment or filing of back taxes in no way serves to establish legal domicile retroactive to the time filed.

To qualify for in-state tuition for a given term, the 12-month waiting period (which begins when the legal domicile is established) must be over by the first day of classes for the term in question. If one's 12-month waiting period expires after the beginning of the term, in-state tuition cannot be granted until the next term.

Once the student's tuition classification is established, it remains unchanged unless satisfactory information to the contrary is presented. A student who, due to subsequent events, becomes eligible for a change in classification from resident to non-resident or vice versa must inform the *Registering Authority Officer* within 15 days after such a change occurs. An adult student or emancipated minor who moves outside of Colorado must send written notification to the *Registering Authority Officer* within 15 days of the change.

Once a student is classified as non-resident for tuition purposes, the student must petition for a change in classification. Petitions must be submitted **NO LATER THAN THE FIRST DAY OF CLASSES** of the term for which the student wishes to be classified as a resident. It is preferred that petitions be received 30 days prior to the *beginning of the term*. Late petitions will not be considered until the next term.

The final decision regarding tuition status, within statute stipulation, rests with the College. Questions regarding residence (tuition) status should be referred only to the Registering Authority Officer. Opinions of other persons are not official or binding upon the College. Additional information (including the "Petition for In-state Classification" forms) is available from the Records Office in 108 Miller Student Center.

¹ The Colorado Revised Statutes are available in the reference section of the John F. Reed Library at Fort Lewis College.

RESIDENT TUITION FOR ACTIVE DUTY MILITARY PERSONNEL

The Colorado Legislature has authorized resident tuition for active duty military personnel on permanent assignment in Colorado and for their dependents (as defined by military regulations). **ELIGIBLE STUDENTS MUST BE CERTIFIED EACH TERM.** Students obtain a completed verification form from the base education officer, and submit the form with their military ID to the Records Office prior to registering for classes. Students who have military certification remain classified as non-residents for tuition purposes and must petition to change their status once they establish permanent ties to Colorado.

NEW MEXICO RECIPROCAL STUDENT PROGRAM

The Colorado Commission on Higher Education and the New Mexico Board of Educational Finance have signed an agreement allowing a limited number of selected New Mexico resident students, normally from San Juan County, to enroll at Fort Lewis College at the in-state rates. Each year a fixed number of students will be allocated to Fort Lewis College under this program. For details, consult the Admission and Development Office or the Records Office.

HOUSING RESERVATIONS

Rooms in residence halls and apartments are reserved, if space is available, upon receipt of a signed Housing Agreement and a \$100 security deposit. This deposit and Housing Agreement will reserve accommodations for the fall and winter trimesters of each academic year (eight months), or the remaining portion thereof if the entering date occurs after the opening date of the fall trimester. The \$100 deposit, less any damages or obligations owed the College, will be returned approximately sixty (60) days after the close of the winter trimester unless the student has applied for the following trimester, in which case the security deposit will be carried over and no additional deposit will be required. For details of the refund policy for room and board charges, consult the Housing/Residence Life Office.

Residents living in the apartment complexes will be permitted to remain in their units during official college vacation periods provided they will be continuing residence during the eight-month contract period. College residence halls are closed during official vacation periods. Residents withdrawing from school and terminating occupancy at the end of the fall or winter trimester must vacate residency prior to the last calendar date of the particular trimester.

SUMMER HOUSING

The College provides on-campus housing in apartments during the summer months. If new to campus housing, a \$100 security deposit is required when making a housing application for the summer months. For more information, contact the On-Campus Housing Office.

STUDENT FINANCIAL AID

Index

Federally Funded Programs	26
State-Funded Programs	26
Institutionally Funded Programs	26
Application Procedures	26



FINANCIAL AID PROGRAMS

Fort Lewis College offers a complete student financial aid program of scholarships, grants, loans and student employment.

Federally Funded Programs:

1. Federal Pell Grant
2. Federal Perkins Loans
3. Federal Supplemental Educational Opportunity Grant (SEOG)
4. Federal College Work-Study
5. Federal Stafford Loan (subsidized and unsubsidized)
6. Federal PLUS Loan (Parent Loan)

State-Funded Programs:

1. Colorado Student Grant (CSG)
2. Colorado Scholars Program
 - a. Presidential Scholarship (entering freshmen only)
 - b. Continuing Student Scholarship (continuing FLC students only)
3. Athletic Award (men and women)
4. Colorado Work-Study Program
5. Colorado Student Incentive Grant (CSIG)
6. Colorado Diversity Grant Program
7. Colorado Part-Time Student Grant

Institutionally Funded Programs:

1. Fort Lewis College Foundation Scholarships and Awards
2. First-Generation College Student Award Program

All financial aid awards, with the exception of Athletic Awards, Presidential Scholarships, Continuing Student Scholarships, the unsubsidized Stafford Loan, the PLUS loan, and some FLC Foundation scholarships/awards, are based on financial need.

Every effort is made to provide the best type of aid or combination of aid to assist students in completing a college education. All financial aid awards, however, are contingent upon availability of funds.

A number of other scholarships are available. Eligibility and selection criteria vary depending on donor instructions. Additional information may be obtained from the Office of Financial Aid.

APPLICATION PROCEDURE

Students wishing to be considered for all programs of need-based student financial aid are required to complete and submit the federal financial aid application called the Free Application For Federal Student Aid (FAFSA).

The FAFSA may be obtained from the student's high school counselor, from an Office of Financial Aid (OFA) at any local college or university, or from the Office of Financial Aid, Fort Lewis College, Durango, Colorado 81301-3999. The "Title IV" School Code is required on Page 4 of the FAFSA. The Fort Lewis College code number is 001353.

The student's financial aid application for the 1999-00 school year (Summer 1999, Fall 1999, Winter 2000 and Summer 2000 Trimesters) should be completed and mailed as soon as possible after January 1, 1999, because most of the need-based aid programs are awarded on a highest need, first-come, first-served basis. Once the financial aid application file is complete in all respects, the determination of eligibility for various awards is made. Awards are offered from the various aid programs until all funds have been awarded. In order to allow adequate time for completion of the aid application file, it is strongly advised that the student mail the FAFSA no later than February 15, 1998. Students who complete their application later may still qualify for some need-based financial aid programs (Federal Pell Grant and/or Federal Stafford Loan), but limited campus-based aid, including work-study, will likely not be available.

Application for the Federal Stafford Loan (subsidized or unsubsidized) may be obtained from a participating lender (bank, credit union or savings and loan association). A new electronic loan application/certification process is now also available. Eligible students wishing to borrow from the Stafford Loan will be sent information about the electronic loan application procedure when they accept the offer. The loan application must then be completed by the student and submitted to the Office of Financial Aid for certification.

Complete consumer information relevant to all student services programs is available upon request. Requests for information should be directed to the appropriate office.

CAMPUS LIFE & STUDENT SERVICES

Index

Housing	28
Counseling and Student Development Services	28
Services for Students with Disabilities	28
Program for Academic Advancement	29
Career Services Office	29
Health Services	29
Student Health Insurance	29
College Union Building	30
<i>(Information Desk, Bookstore, Campus Post Office)</i>	
Alumni Association	30
Union and Activities Office	30
Prevention Program	30
Associated Students of Fort Lewis College	30
<i>(SPOT, Student Program Board)</i>	
Outdoor Pursuits	30
Student Media	31
<i>(KDUR-FM Radio Station, Independent Newspaper)</i>	
Environmental Center	31
Athletics and Recreation	31
Motor Vehicles	31
Identification Cards	31
Guns and Weapons Policy	31
Student Conduct Codes and Disciplinary Action	32

STUDENT SERVICES

Fort Lewis College provides the best possible social and physical environment to foster the academic, cultural and personal development of each student. The Office of the Vice President of Student Affairs is responsible for the coordination of various student-services programs.

Housing/Residence Life

About one-third of the College's student population lives on-campus in one of seven residence halls, the Centennial and Anasazi Apartments, and North Complex, all of which provide a pleasant physical environment for student life.

An important goal of the campus Residence Life System is to provide environments which support the values inherent in academic achievement, as well as gender, ethnic and cultural diversity. In addition, Residence Life provides opportunities for social and recreational needs, coupled with opportunities to learn developmental skills to promote good citizenship.

In keeping with these goals and tenants of student development theory, the College requires first-time freshmen, men and women, to live in campus residence halls as space is available for two academic trimesters. Housing assignments are made on a first-come, first-serve basis. Freshmen who are married/divorced, 21 years of age or older, veterans, or students who will live with parents or relatives in the Four Corners area may petition the Housing/Residence Life Office for exemption to the residency requirement.

New applicants for campus housing are assigned to a residence hall or apartment according to date of application (with required deposit). Students who cannot be accommodated on-campus can be assisted in finding off-campus housing through the Off-Campus Housing Office.

Students who wish to continue living on-campus the next academic year must reapply for housing. Spaces will be assigned on a first-come, first-served basis. Students may request roommates and room location from those available. Detailed information regarding this procedure is available in the Housing/Residence Life Office.

To Apply for Housing

When students receive their Permit to Register or acceptance by the College, they should then apply for campus housing. A \$100 deposit is required with the appropriate application. The Housing Agreement covers both the fall and winter trimesters of an academic year (8 months).

Fort Lewis College has a traditional approach to residence-hall living. Resident students receive keys that permit them entrance to their halls and rooms. Residents are expected to live by the rules and regulations as outlined in the Housing Agreement, the Guide to Residence Living and the FLC Student Conduct Code.

The residence hall/apartments are staffed by Residence Directors, Assistant Residence Directors and Resident Assistants (RAs), who are there to promote a pleasant living environment conducive to study. They are an added resource for students as they

adjust to the collegiate community. The Student Services staff also provides social and educational activities on and off campus to foster personal growth and development.

All campus living is a learning experience, and the Fort Lewis College Residence Hall program is predicated on this principle. Our mission is carried out in an educationally responsible manner and is dedicated to providing healthy and relaxed places for all resident students. Fort Lewis College does not believe that such principles are best served through completely non-directive, open residence facilities.

Off-Campus Housing

Off-campus housing information is available through the CUB Information Desk. This service maintains a bulletin board in the CUB Lobby with up-to-date listings of rooms, houses, apartments and mobile homes available for rent.

Counseling and Student Development

Counseling services at Fort Lewis College are based on the philosophy that personal/emotional development is an integral part of a student's intellectual development. The Counseling Center has a professional staff of counselors committed to implementing this philosophy. The primary goals of the Counseling Center are to provide:

- An academic support system to help students overcome obstacles in their academic programs.
- A counseling service to help students cope with crises or other immediate needs in their lives.
- An educational service to promote positive personal development.
- And finally, a support and information/referral service.

Personal counseling is confidential and is offered through individual and small group counseling. It is intended to be supportive to assist students in solving their problems of a short-term nature. Services are free to students on a short-term basis. There is a charge for therapy after a set number of sessions and for testing services. If additional services are needed, students can be referred to the Health Center, appropriate mental health agencies or practicing professionals in the community.

Services for Students With Disabilities

The goal of Services for Students with Disabilities is to provide equal accessibility to all students with disabilities. Services provided by this office range from personal campus orientation to extended time on tests. Individual accommodations must be based on the appropriate documentation from a licensed professional. Students are encouraged to send relevant diagnostic information to this office as soon as possible. All documentation is housed in this office and kept confidential.

The Coordinator of Services for Students with Disabilities acts as a liaison to faculty and other college departments. The coordinator also works closely with the Learning Assistance Center and Program for Academic Advancement, and encourages all students to use the resources available at Fort Lewis.

Wheelchair-accessible housing, as well as housing modified for students with hearing impairments and/or visual impairments, is available. Students with disabilities should notify the Housing/Residence Life Office if they need special consideration for on-campus housing.

The Admission and Development Office can be easily accessed through the main entrance on the north side of the building. Designated van accessible parking is conveniently located near the entrance. A map indicating wheelchair-accessible routes is also available.

The Admission and Development Office has a home visit program. If requested, admission counselors will gladly take information to an individual's home (locally). Services for Students with Disabilities also will visit individual homes outside the Durango area if conducting high school visits in that area and you have made an appointment.

For more information about services for students with disabilities, contact Services for Students with Disabilities.

Program for Academic Advancement

The federally funded Program for Academic Advancement (a TRIO program) provides eligible students with the help and guidance they need to succeed at Fort Lewis College. See Page 49 for more information.

Career Services

The Career Services Office at Fort Lewis College offers many services and programs to students. Students are encouraged to begin using the services during their freshman year. The services range from career counseling such as selecting a major, developing self-awareness: values, interests and skills, to job search skills such as résumé development, interview techniques, letters in the job search, and how to conduct an effective job search.

In addition, vocational assessment inventories are available to help the students gain knowledge of career patterns. There are two computer programs: FOCUS and EZDOT. Both allow students to work at their own pace while exploring career issues.

Information about graduate schools can be obtained through graduate directories. Brochures for registering to take graduate school exams are available to students in the Career Resource Center.

The Career Resource Center is open to all students to use during regular hours. Vacancies throughout the country and world, salary information, career guidance, employer and occupational information is readily available in the Resource Center.

Students seeking part-time internships, volunteer experiences, professional positions or local positions can receive help in the Career Services Office. Many employers contact the office to announce openings.

Students obtain services by scheduling an appointment with a trained career counselor, by attending workshops, or by exploring resources on their own.

Health Services

The goal of the Student Health Center, an outpatient medical center, is to provide comprehensive health care to students, health promotion and education, and confidentiality for all clients.

The Student Health Center is in the Miller Student Center on the ground floor.

The Health Center is staffed by a physician's assistant, who also serves as director; nurses and part-time family practice physicians.

Usual hours are 8:30 a.m. - 4:30 p.m., Monday through Friday during school terms. A physician is on call evenings, weekends and holidays during the fall and winter terms.

The Student Health Center provides:

- Complete general medical and nursing care, first aid, and emergency care for most illnesses and injuries.
- Intercollegiate sports physicals.
- Assistance in securing appointments with physicians, dentists and other practitioners.
- GYN examinations and Pap smears.
- Physicals required for other schools or employment.
- Minor surgical procedures.
- Complete laboratory services: blood tests, strep, HIV, pregnancy tests, urinalysis, STD tests, tuberculin test.
- Birth control: pills, condoms, Depo-Provera injections, diaphragm fitting.
- Immunizations: MMR as required by the college, Td, Hepatitis B, Hepatitis A, gamma globulin and flu shots.
- Allergy antigen administration-patient supplies own antigen as prescribed by a personal doctor.
- Over-the-counter medications, vitamins, and condoms.

State of Colorado law and Fort Lewis College require that all students born after Jan. 1, 1957, provide proof of TWO Measles, Mumps, and Rubella (MMR) immunizations after their first birthday. This immunization can be received at the Health Center for a small fee.

Student Health Insurance

Student Health Insurance is available through an independent carrier, at group rates. Insurance may be purchased at the beginning of each trimester. Students are encouraged to carry some medical/accident insurance, either through the Fort Lewis insurance program or a private program. The Health Center staff will assist with insurance claims.

College Union Building (CUB)

The College Union Building (CUB) located on the southeast corner of the campus, is the central meeting area for students, offering lounges, meeting rooms, food services and student services offices. The CUB is more than just a place, it is the central location for co-curricular learning, socializing and just relaxing. Union and Activities, ASFLC (student government), Prevention Program, KDUR-FM radio, *Independent* newspaper, Outdoor Pursuits, Post Office, Bookstore, Environmental Center, Campus Dining Services, Facilities Scheduling and SPOT all have offices in the CUB.

CUB Information Desk

The CUB Information Desk is the headquarters for the campus lost and found, general information, campus maps, SPOT ticket sales, "Lift" bus stickers, course schedules, printing of academic schedules, club and organization forms, and more.

Bookstore

Besides stocking required course textbooks, the bookstore offers a wide selection of leisure reading books, magazines, school supplies, art materials, clothing, gift items and snack foods. Macintosh/Apple computer hardware and software is also for sale. The store is open

from 7:30 a.m. to 4:30 p.m., Monday through Friday, with special extended hours during the first week of the fall and winter trimesters.

Postal Service

Fort Lewis College operates a full-service U.S. Post Office in the College Union Building. Students living on campus receive their mail and UPS parcels at the Post Office via assigned mailboxes. FAX service is available to students for a minimal fee. Students living off-campus may rent a mailbox for a small annual fee.

Alumni Association

The Alumni Association of Fort Lewis College is becoming increasingly more active both as a service organization and as a means of helping former students enjoy memories of their college days. The Association supports the College in many areas, such as providing scholarships, funding special programs, and assisting with graduate placement.

Regularly published newsletters contain information about former classmates, activities and projects that help the College. Among these are sponsorship of admission activities, social-functions and athletic events; placement assistance; and financial support.

STUDENT LIFE

Union and Activities Office

The Union and Activities Office provides assistance to the ASFLC (student government), SPOT (student program board), KDUR, Outdoor Pursuits, Environmental Center and all other student clubs and organizations regarding the development of co-curricular programs. One goal of the office is to empower and assist students as they actively create the character of Fort Lewis College. By helping students coordinate lectures, concerts, films, special events, fundraisers, theme weeks, and much more, the Union and Activities Office strives to maintain close contact with students and to help them achieve their goals. The office is also involved with several campuswide events, such as Student Orientation, Parents Weekend, Homecoming and Commencement Ceremonies.

Prevention Program

The goal of the Prevention Program is to provide students with healthy lifestyle options. Students interested in being a peer educator, volunteering in the community, or organizing programs such as dances, coffeehouses, educational workshops and social issues awareness weeks, should get involved with the Prevention Program. The coordinator is located in the Programming Office, 019 CUB.

Associated Students of Fort Lewis College (ASFLC)

The ASFLC was established to assure Fort Lewis students a representative system to help meet their social, political and economic needs. By representing FLC students, the ASFLC president, vice president and Senate assist with issues of administrative, academic, legislative, cultural and social nature. The ASFLC Senate also advocates the autonomy of student

organizations, promotes education through constructive dialogue and allocates student fees in the most responsible and effective manner possible. The ASFLC Senate allocates the student activity fee money to support the following programs and activities: Outdoor Pursuits, SPOT, Environmental Center, *Independent*, KDUR, Intramurals, *Images*, clubs and organizations, Legal Aid, Fourth Wall Productions, and more!

The ASFLC president, vice president and 15 senators are elected by the student body. The senate is divided into the following committees: Budget, Constitution, Elections, Legislative Affairs, Line Item Audit and Student Services. Numerous student-at-large appointments are made by the ASFLC to various campus committees. All Senate meetings are open to FLC students, and students are encouraged to attend or stop by the ASFLC offices in the CUB.

SPOT (Student Program Board)

SPOT (student program board) is a group of students who determine what films, lectures, concerts, comedians and special events are brought to campus. SPOT is made up of students who positively contribute to the campus climate by bringing diverse quality programming to FLC.

Outdoor Pursuits

The Outdoor Pursuits program offers a wide range of outdoor recreation and skill building activities for students. Two professional staff members guide trips such as rock climbing, kayaking, cross country skiing, backpacking, avalanche safety training and mountain biking. Unlimited use of equipment is available by reservation for a yearly \$10 fee. The staff can also assist you with

plans for your own adventure by providing maps, expert advice and reading material. The primary goal of the Outdoor Pursuits program is to provide students with an opportunity to experience the wonders of the Four Corners region.

Campus Radio Station

KDUR-FM is the FLC campus radio station operated by a professional station manager, Board of Directors and a host of student and Durango community volunteers. Students can earn academic credit for most positions held at the station or they can simply volunteer their time to be a director - news, traffic, music, underwriting, promotion, production - or a disk jockey. The station reflects the diversity of the campus and Durango community through the alternative and progressive programs, news and music it broadcasts. KDUR is an affiliate of Public Radio International and Pacifica Radio. Tune in to 91.9 FM in Durango or 93.9 FM in surrounding areas for a truly eclectic listening experience.

Student Newspaper

The *Independent* is the student-managed newspaper published every Friday during the fall and winter trimesters. Students can earn credit and valuable job experience by working on the "Indy" staff as writers, photographers, editors, artists, advertising salespersons and production workers. The *Independent* covers campus, local and national news, sports, entertainment and other special events which affect students and the campus community. If you thrive on deadlines, beats and late-breaking news, the "Indy" is the place for you.

Environmental Center

The Fort Lewis College Environmental Center is a student-based outreach facility promoting social and ecological awareness, practices, and dialogue in the college community and surrounding region. It is operated by volunteer and work-study students, non-students and a full-time professional manager. Activities and information concentrate in three areas including office management, ecosystem studies, and reduce-reuse-recycling education efforts on and off campus. Activities include fall and spring Earth Day events, regular meetings, on-campus recycling, newsletter publishing, and trips to regional conferences where students can be involved in solutions to environmental problems.

Athletics and Recreation

Fort Lewis College has a comprehensive intercollegiate athletic program. The College fields women's teams in basketball, cross country, soccer, softball and volleyball. Men's teams include basketball, cross country, football, golf and soccer. The Skyhawks compete against four-year colleges and universities from Colorado and the western region. Fort Lewis is a member of the National Collegiate Athletics Association (Division II) and the Rocky Mountain Athletic Conference.

Club sports that compete intercollegiately include skiing, lacrosse and cycling.

Campus Athletic Facilities

Facilities include tennis courts, softball fields, gymnasium, football stadium, track, weight room, volleyball courts, swimming pool, and a 900-square-foot climbing wall. Located adjacent to campus are a municipal golf course and a ski hill.

The athletics facilities are also available to students during the evenings and on weekends for informal recreation activities such as swimming, basketball, weight training and volleyball.

An excellent intramural and recreation program is also offered. There are opportunities for competition in basketball, volleyball, softball, wrestling, soccer, tennis, swimming and many other selected activities.

Motor Vehicles

Students are permitted to have their cars on campus; however, freshmen often find that the ready availability of a car is a contributing factor to a poor academic record.

Students and all Fort Lewis College personnel must register their vehicles and pay the scheduled parking fees during the official registration period. Campus traffic and parking regulations are distributed at the time of registration.

The registration fee contributes to the construction and maintenance of parking areas, since it is the policy of the State of Colorado not to build parking lots with state funds. All parking sticker permits are prorated monthly. Special decals may be issued to students or college personnel who have disabling handicaps.

Identification Cards

An FLC identification card is required of all students. This card is necessary for access to the library and dining facilities and is important in helping a student establish identification for all financial transactions and for admission to many campus events and facilities. It should be carried at all times and presented when requested by college officials. The ID office is located in Miller Student Center, Room 104.

Guns and Weapons

Unlawful or unauthorized use, possession or storage of guns, ammunition, other lethal or dangerous weapons, explosive substances or chemicals are expressly prohibited on the Fort Lewis College campus. Students are reminded that it is also against college policy to store guns in their cars.

Student Conduct Code and Disciplinary Action

Students at Fort Lewis College must accept their responsibilities for the maintenance of the educational environment. Students are expected to exhibit at all times standards of personal conduct which demonstrate maturity, good judgment, and respect for the persons, property, rights of others, and self-discipline. Behavior that threatens the safety or violates the basic purpose of the College community will not be tolerated.

The Student Conduct Code supports the educational environment and is published annually in the Fort Lewis College Student Handbook. It is the responsibility of every student to be familiar with and abide by the Student Conduct Code.

Violations of the Student Conduct Code will result in disciplinary action. One possible consequence of disciplinary action is dismissal from Fort Lewis College.

ACADEMIC PROGRAMS AND POLICIES

Index

Academic Programs	35
Degrees Offered	35
School of Arts and Sciences	35
School of Business Administration	35
School of Education	35
Student-Constructed Major	35
Requirements for Graduation	35
General Requirements	35
Majors	36
Minors	36
Electives	36
Second Bachelor's Degree	36
Petitioning to Graduate	36
The Curriculum	37
Interpreting the Catalog	37
General Studies	37
Composition and Distribution Requirements:	
Group A - Language and the Arts	37
Group B - Quantitative & Natural Sciences	37
Group C - Foundations of Culture	38
Group D - Social Structure and Behavior	38
Group E - Non-Western Studies	38
Group W - Writing	38
Physical Education	38
Repeatable Courses	38
Courses Common to All Programs	38
Composition	38
Cooperative Education	38
General Studies	38
Human Heritage	39
Integrated Learning Program	39
Special Topics	39
Individualized Study	40
Independent Study	40

Transitional Studies	40
John F. Reed Honors Program	40
Special Academic Programs	41
<i>Cooperative Education</i>	41
<i>Extended Studies</i>	42
<i>The Japan Program</i>	42
<i>Programs in Mexico</i>	42
<i>Trimester Abroad in Europe</i>	42
<i>International Student Exchange</i>	42
<i>International Dual Degree Program</i>	43
<i>National Student Exchange</i>	43
Summer Programs	43
<i>Innovative Month Program</i>	43
Academic Policies	43
<i>Grading</i>	43
<i>Attendance Requirements</i>	44
<i>Final Exams</i>	44
<i>Academic Progress/Probation/Suspension</i>	44
<i>Academic Renewal</i>	44
<i>Dean's List/Graduating with Honors</i>	45
Academic Procedures	45
<i>Registration</i>	45
<i>Classification</i>	45
<i>Special Scheduling</i>	45
<i>Academic Advising</i>	45
<i>Course Load</i>	46
<i>Full-Time Load</i>	46
<i>Program Changes</i>	46
<i>Effective Catalog</i>	46
<i>Transcripts</i>	46
<i>Family Educational Rights and Privacy Act (FERPA)</i>	46
Academic Support Programs	47
<i>The Library</i>	47
<i>Center of Southwest Studies</i>	47
<i>Office of Computing and Telecommunications</i>	48
<i>Learning Assistance Center</i>	48
<i>Native American Center</i>	48
<i>"El Centro" Latino Student Center</i>	48
<i>Program for Academic Advancement</i>	49
<i>Center for Service Learning</i>	50
<i>Office of Community Services</i>	50

ACADEMIC PROGRAMS

The academic programs at Fort Lewis College are offered through the Schools of Arts and Sciences, Business Administration, and Education.

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, general science 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. Licensing programs are offered for the following: early childhood (pre-school, K-2), middle childhood (elementary), young adult (secondary) and K-12 (art, music, PE) education.

School of Arts and Sciences

Courses in agriculture, anthropology, art, biology, chemistry, communications, computer science, engineering, English, environmental policy, forestry, French, geology, general science, German, health careers, history, Japanese, Latin, mathematics, music, Navajo, philosophy, physics, political science, sociology, Spanish, statistics, and theatre, as well as interdisciplinary work in a number of areas (such as international studies, religious studies, southwest studies, and women's studies) are offered in the School of Arts and Sciences.

School of Business Administration

The School of Business Administration is an AACSB Accredited professional school offering instruction in accounting, agricultural business, business administration, engineering management, finance, international business, management, marketing, operations management, tourism and resort management, and economics.

School of Education

The School of Education prepares students for licensure at the early childhood (pre-school, K-2), middle childhood (elementary), young adult (secondary) and K-12 (art, music, PE) levels. Major programs of study in English, exercise science (PE) and music education are also available. Students can add-on endorsements in bilingual, English as a second language, early childhood (pre-school, K-2) and early adolescent (middle school) education to various licenses.

Student-Constructed Major

The College has established the student-constructed major to meet particular needs and purposes. Such a major is usually interdisciplinary, always designed to meet the special needs and talents of individual students, and generally differs substantially from course combinations and emphases that are available through majors, minors, and electives in the established curriculum. Among recent student-constructed majors have been ones in criminal justice, international studies, agricultural economics, commercial art and southwestern peoples. The major may be related to any school or include course offerings from more than one school. Student-constructed major contract forms and requirements are available in the Office for Academic Affairs.

REQUIREMENTS FOR GRADUATION

General Requirements

Each candidate for graduation must complete a minimum of 128 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. Of the 128 credits required for graduation, each student is required to complete a minimum of 50 credits outside the discipline in which he or she is majoring. It is the responsibility of the student to know and complete all graduation requirements.

Candidates for bachelor's degrees must complete three elements in their academic programs: general studies, a major and electives. Each candidate must complete a minimum of 44 credits in the general studies program to be chosen as outlined below and a minimum of 30 credits in a field of specialization, called the major. The balance of the 128 credits required for graduation are called electives. The student has wide latitude in selecting these, although some of them may be specified in certain programs as auxiliary to the major or for teacher licensing. Many students choose to use electives to complete the requirements for a minor.

A student must complete his or her final 28 credits in residence. Exceptions to this requirement include such programs as medical technology and engineering (3-2 program). Other exceptions may be made in unusual circumstances by the Vice President for Academic Affairs on recommendation of the appropriate school dean.

Among the 128 credits required for the degree, 50 credits must be upper-division courses. No more than 28 credits will be accepted for work completed by correspondence, extension or educational television.

A course offered in substitution for a required course or the request that a requirement be waived must have the approval of the student's faculty advisor, the school dean, and the Vice President for Academic Affairs or his designee. The student must complete the form "Request for Exception to Graduation Requirements."

Majors

Each student seeking a baccalaureate degree must select a major area of study for specialization. The College now offers majors in Accounting, Anthropology, Art, Biology, Business Administration, Chemistry, Computer Science Information Systems, Economics, English, Exercise Science, General Science, Geology, History, Humanities, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology/Human Services, Southwest Studies, Spanish and Theatre. In addition to these regular majors, the College has established a procedure whereby a student with a special purpose may construct his/her own major. Ordinarily, this major should be of an interdisciplinary character and be submitted for approval not later than the end of the first term of the junior year. The student-constructed major contract must be approved by the advisor, the appropriate school dean, a representative of the Curriculum Committee and the Vice President for Academic Affairs.

Students may elect to complete concurrently the requirements for two majors. The "Petition for Candidacy for a Degree," which can be obtained from the Records Office, must be completed with both majors listed within a month after completion of 80 credits and submitted to the Records Office. Any major or minor additions or changes after submission of the original "Petition for Candidacy for a Degree" must be made on the original form in the Records Office.



Members of the Fort Lewis College Jazz Band rehearse for a performance.

Photo by Marwa Mohamed

Courses meeting auxiliary requirements and specific common major requirements may count in meeting curriculum requirements for both majors. Courses taken to fulfill requirements in either major field generally will not apply towards General Studies groups A, B, C, D, or E. All requirements for both majors must be completed prior to a degree being awarded.

As of January 1, 1989, the Colorado Department of Education no longer recognizes elementary education as a major for candidates seeking elementary teacher licensing. Students seeking elementary teacher licensing must complete a degree with a subject major as well as the elementary teacher licensing program.

Associate of Arts degree is offered in agricultural science.

Minors

Minors, even though not required for graduation, are offered by most departments. Requirements for a minor are described under the program of study for each department or can be obtained from the department. General Studies requirements and minor requirements may overlap. For additional information regarding a minor, consult the department chair.

Electives

The third part of a student's program of study consists of additional courses called "electives," selected in accordance with his or her ability, interest and purpose. The courses permit students to become acquainted with other areas of knowledge to broaden their education, to supplement their major areas of concentration, to meet specific requirements of a graduate school, to take professional teacher certification courses, or to add a second teaching field.

Second Bachelor's Degree

A student who for special reasons desires to secure a second bachelor's degree must complete a minimum of 28 credits in addition to the total number of credits required for the first degree. The student is required to complete all requirements for the second degree, including general graduation requirements and specific requirements for the major selected. No honors are awarded upon the receipt of a second bachelor's degree. If a student receives the first bachelor's degree from another accredited college, the additional 28 credits must be in residence to fulfill the requirements for the second bachelor's degree. The additional credits required for the second degree may be completed concurrently with those credits applying to the first degree and the two degrees may be granted simultaneously, providing all requirements have been completed for both degrees.

Petitioning to Graduate

To graduate from Fort Lewis College, each student must submit a signed "Petition for Candidacy for a Degree," which can be obtained from the Records Office. The signed petition must be returned to the Records Office within a month after the completion of 80 credits for the bachelor's degree and after the completion of 30 credits for the Associate of Arts degree. All requirements for major(s) and minor(s) specified on the original petition must be completed prior to a degree being awarded. Also, the graduation fee must be paid by that date. The student may petition for a minor on this form.

THE CURRICULUM

Interpreting the Catalog

The figures after each course [i.e. (3-2) 4] have the following meanings: the first figure in the parentheses refers to hours spent in lecture or seminar sessions and the second number refers to hours in laboratory each week. The figure outside the parentheses refers to semester credits.

The course numbering system is described in the following table:

Course Number	Intended for:	Open to:	Instructor Permission Required for:
Below 100	Open only to students with demonstrated need.		
100-199	Fr	So	Jr, Sr
200-299	So	Fr, Jr	Sr
300-399	Jr	So, Sr	Fr
400-499	Sr	Jr	So

Entry to all courses is limited to students who have completed published prerequisites or to those with instructor permission. Courses numbered below 100 do not count toward graduation. Courses numbered below 300 are called lower-division courses, while those 300 or above are upper-division courses.

General Studies

Fort Lewis requires a broad background in general studies of all candidates for the bachelor's degree. Students have a variety of choices, but they are specified by general categories in order to assure breadth of education in addition to the specialization required in the major. Each student will be aided by a faculty advisor in choosing a general studies program best suited to the student's own needs and interests.

I. Composition

Comp 150 Reading and Writing in College

(4-0) 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 contribution to intellectual dialogues.

Prerequisite: 12 hours of college credit. Must be taken in conjunction with LIB 150 Information Literacy.

LIB 150 Information Literacy

(1-0) 1

This course examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be on accessing and critically evaluating information, especially within the context of conducting research in an academic library.

Prerequisite: 12 hours of college credit. Must be taken in conjunction with Comp 150 Reading and Writing in College.

II. Distribution Requirements

The outline below indicates the number of courses required in each group. Courses taken in the major field will not apply toward groups A, B, C, D or E except for the broad majors of humanities, general science and Southwest Studies. However, courses required for a major that are under "Auxiliary Requirements from Other Departments" may apply toward General Distribution Requirements. Courses identified with more than one group letter can be used to satisfy only one group requirement (e.g. Hist 170CE can satisfy C or E but not both).

Furthermore, courses of fewer than 3 credits will not meet these requirements, except where there are laboratory activities related to other courses taken at the same time or previously.

Group A. LANGUAGE AND THE ARTS - 3 Courses

Purpose: To provide an understanding of human expression through literature, the fine arts and the performing arts, with special emphasis on developing aesthetic sensitivity and creativity. Three courses must be chosen - at least one from each subgroup.

1. Literature or language courses with A1 after the course number (or suffix) will satisfy this requirement. Examples are Ed 327A1 Children's Literature, Engl 221A1 Classical Literature, ML 148A1 Elementary French II.
2. Fine arts and performing arts courses with A2 after the course number will satisfy this requirement. Examples are Art 162A2 Art in the Humanities, Mu 101A2 The Musical Experience, SW 154A2 Indian Arts and Crafts and Thea 101A2 Introduction to Theatre. Three consecutive trimesters (e.g., fall, winter, fall) in any large music ensemble (Choir Mu 105A2/305A2, Band Mu 110A2/310A2, Orchestra Mu 117A2/317A2) will also equal one course from this subgroup.
3. One course from subgroup 1 or 2.

Group B. QUANTITATIVE AND NATURAL SCIENCES -3 Courses

Purpose: To provide an understanding of the physical world and the formal, theoretical and empirical methods by which it is studied. Three courses required - at least one must be a natural science course with associated laboratory; the three must be from at least two different fields.

Courses with a B after the course number will satisfy this requirement. Many group B courses are available in these fields: Agriculture, Biology, Chemistry, Computer Science Information Systems, General Science, Geography, Geology, Physics and Mathematics. Courses in Business, Philosophy and Psychology with a B after the course number will also satisfy this requirement.

Group C. FOUNDATIONS OF CULTURE - 2 Courses

Purpose: To provide an understanding of fundamental values and world views through the study of human society's past, its formative ideas, and its alternative cultural expressions.

Courses with a C after the course number will satisfy this requirement. Courses in this group are available in the fields of Anthropology, Business Administration, Economics, History, Philosophy and Southwest Studies.

Group D. SOCIAL STRUCTURE AND BEHAVIOR - 2 Courses

Purpose: To provide an understanding of human beings, both as individuals and as socially, politically and economically related groups. Courses with a D after the course number will satisfy this requirement. Courses in this group are available in the fields of Business Administration, Economics, Geography, Political Science, Psychology and Sociology.

Group E. NON-WESTERN STUDIES - 1 Course

Purpose: To provide an understanding of a cultural view quite different from the students' own, which is generally North American and European, in order to broaden their horizons of thought and their understanding of the world's peoples; to promote peace and understanding; and to help students have more objectivity toward and appreciation of their own culture as seen from another perspective.

At least one course must be taken in Non-Western Studies. These courses are culturally rather than geographically defined and focus on Latin America, Asia, Africa, Eastern Europe, the Islamic World, and Native American cultures. Courses meeting this requirement will have an E after the course number.

Group W. WRITING - 3 Courses

Purpose: To provide an understanding of the writing, reading, and thinking practices of the academic community, both at a general level and at a more specific, disciplinary level.

After completion of at least 12 college credits every student must take the general writing course entitled "Reading and Writing in College," in conjunction with its companion course entitled "Information Literacy." After these two courses have been completed, students must take a writing course (identified with a W) within their major discipline. These disciplinary Group W courses may also be counted toward departmental requirements.

III. Physical Education

Two activity courses of 1 credit each are required; the two must be in different activities or levels.

Repeatable Courses

Certain courses are repeatable but have limits on the number of credits that can be counted toward graduation. Art courses may be repeated once for a total of 6 credits in the following: Art 201, 227, 301, 313, 324, 326, 331, 343, 350, 401, 413, 424, 425, 431, 443 and 450. The limit on physical activity courses is 6 credits in different physical activities or levels. Theatre 100, 200, 300, 366 and 400 are each repeatable for up to 12 credits. Theatre 401 is repeatable for up to 8 credits. A maximum of 18 credits are allowable toward graduation for any combination of Engl 250, 251, 252, 350, 351 and 352. Engl 250/251/252 may be repeated for a total of 6 credits. Engl 350/351/352 may be repeated for a total of 12 credits.

A combined maximum of 12 credits from large ensembles -- Mu 105A2, 110A2, 117A2, 305A2, 310A2, 317A2 -- is allowable toward graduation. A combined maximum of 12 credits from each small ensemble -- Mu 106/306, 111/311, 112/312, 113/313, 118/318, 119/319, and 300 -- is allowable toward graduation. Each applied music course -- Mu 109, 209, 309, 409 -- may be repeated for a maximum of 4 credits. A maximum of 16 credits in a single applied music area is allowable toward graduation. Mu 100 may be repeated for up to 4 credits allowable toward graduation. Mu 107, 207, and 407 are repeatable with limits.

Courses Common To All Programs**COMPOSITION****Comp 150 Reading and Writing in College (4-0) 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 contribution to intellectual dialogues. **Prerequisite:** 12 hours of college credit. Must be taken in conjunction with LIB 150 Information Literacy.

LIB 150 Information Literacy (1-0) 1

This course examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be on accessing and critically evaluating information, especially within the context of conducting research in an academic library. **Prerequisite:** 12 hours of college credit. Must be taken in conjunction with Comp 150 Reading and Writing in College.

COOP ED 200 Cooperative Education 1-10

A first-time cooperative education work experience by underclassmen.

COOP ED 300 Cooperative Education 1-10

A cooperative education work experience by upperclassmen. A maximum number of credits is allowed toward a degree.

COOP ED 400 Cooperative Education 1-10

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.

GENERAL STUDIES

General Studies courses are focused on topics that are from the perspective of more than one discipline. These courses do not fit an academic area represented by a single department or program.

GENERAL STUDIES 101 and 102**Human Heritage I and II****(4-0) 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. Students must complete both courses to fulfill designated distribution requirements (A1, C, and E). This course transfers to all Colorado colleges and universities in fulfillment of general education requirements.

GENERAL STUDIES 151**(14-11) 17****INTEGRATED LEARNING PROGRAM**

This course integrates the humanities, the social sciences, the sciences, and Comp 150 around broad topics of scholarly interest. The particular categories of general education courses that this course satisfies are given below. Topics of individual components may differ each year.

Group A: Language and the Arts

The Integrated Learning Program awards the equivalent of one course which provides an understanding of human expression through literature and language with special emphasis on developing aesthetic sensitivity and creativity. The works of literature considered will vary each year.

Group B: Quantitative and Natural Sciences

The Integrated Learning Program awards the equivalent of one course with lab which provides an understanding of the physical world and some of the formal, theoretical and empirical methods by which it is studied.

Group C: Foundations of Culture

The Integrated Learning Program awards the equivalent of one course which provides an understanding of fundamental values of world views through the study of human society's past, its formative ideas, and its alternative cultural expressions.

Group D: Social Structure and Behavior

The Integrated Learning Program awards the equivalent of one course which provides an understanding of human beings, both as individuals and as socially, politically and economically related groups.

Comp 150 Reading and Writing in College

The Integrated Learning Program awards academic credit for Comp 150 which 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 contribution to intellectual dialogues. In addition, ILP students will earn an additional credit in LIB 150 Information Literacy. (1-0) (See description above.)

This course is designed for first-time freshmen and is available by application only. Application information may be obtained from Cathy Simbeck, Program Director. Offered only in the fall.

GENERAL STUDIES 361 Computers and Human Issues**(4-0) 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 which pertain to the previously mentioned topics. Students will become familiar with the various forms of writing used within the discipline of Computer Science. Hands-on experience with the Internet and related components is also an integral part of this course.

Prerequisite: Comp 150, LIB 150.

GENERAL STUDIES 495**Environmental Colloquium****(4-0) 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-conducted project provides a Service Learning opportunity for students.

Prerequisite: Junior standing, Psych 241B or Math 201B or BA 253B and consent of instructor.

GENERAL STUDIES 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.

Prerequisite: Senior standing.

SPECIAL TOPICS 190**1-6**

This is not a fixed course but is a designation to take advantage of special opportunities and topics. It can be offered in any area with the consent of the school dean and the Vice President for Academic Affairs. This course may not be used to meet any general studies requirement. From 1 to 6 credits may be earned.

SPECIAL TOPICS 191**3-6**

This is not a fixed course but is a designation to take advantage of special opportunities and topics which meet the purpose of one of the groups under the General Studies Program. It can be offered in any area with consent of the school dean, the Vice President for Academic Affairs, and curriculum committee. Credit may vary from 3 to 6 credits.

SPECIAL TOPICS 390**1-6**

Same as Special Topics 190 except that this course is taught at the upper-division level. This course may not be used to meet any general studies requirement.

SPECIAL TOPICS 391**3-6**

Same as Special Topics 191 except that this course is taught at the upper-division level.

INDIVIDUALIZED STUDY 299**1-3**

Independent study for lower-division or non-major students. Available in most disciplines.

INDEPENDENT STUDY 499

1-3

All major fields require either independent study or a seminar at the senior level. Independent study may be undertaken in a field other than the student's major. To do so, the student must have the approval of his or her advisor, department chair, the department chair in whose area the study will be made, and the professor who will supervise the study. However, independent study in the field outside the student's major cannot be substituted for the requirement of independent study or seminar in his or her major field.

TRST - TRANSITIONAL STUDIES

As the title implies, Transitional Studies courses are designed to assist students in their transition from high school to college. The classes, taught by the staff of the Learning Assistance Center, do not give students credit towards graduation, but do carry credit which can be applied to financial aid and housing requirements. With the exception of the English as a Second Language Classes, students receive a grade of S (Satisfactory) or NC (No Credit).

TRST 85 ESL Composition

(3-0) 0

Designed to prepare students for whom English is a second language to write acceptable college essays.

Subjects covered include prewriting, thesis development, sentence development, paragraph development, grammar review, punctuation review, logic and vocabulary development.

TRST 86 ESL Study Skills

(3-0) 0

Designed to be taken in conjunction with TRST 85. The course develops in students for whom English is a second language the thought processes, habits and skills necessary to succeed in college. Subjects covered include notetaking, textbook reading, questioning, test taking and classroom etiquette.

TRST 91 The Writing Process

(3-0) 0

Designed to improve the composition skills of students who have weak backgrounds in writing. The course focuses upon pre-writing, logic, paragraph organization, and essay structure, and includes frequent one-on-one critique sessions with the instructor.

TRST 92 Intermediate Algebra

(2-1) 0

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.

TRST 95 Learning Skills

(2-0) 0

Designed to develop the thought processes, habits and skills students need in order to succeed in college. Subjects covered include time management, notetaking, concentration, textbook reading, test taking, memory development and college policies.

John F. Reed Honors Program

For students of outstanding ability, the College offers the John F. Reed Honors Program, named for John F. Reed, President of Fort Lewis College from 1962 to 1969. Students who complete the Honors Program will receive special recognition at graduation and on their transcripts.

The Honors Program offers an enriched educational opportunity to students who enjoy working in small groups. Each Honors course draws on the scholarship and insights of more than one academic discipline and is conducted in the small group, participatory setting of a seminar. Students admitted to the program are automatically accepted into any Honors course; students who are not enrolled in the program may take Honors courses with the consent of the instructors.

Students usually apply to enter the program at the end of the first term of their freshman year or at the beginning of the first term of their sophomore year. Admission to the program is based on an assessment of the student's Fort Lewis College academic achievement, faculty recommendations, and demonstrated interest. Application for admission to the program should be made to the Honors Coordinator. Reed Scholars are expected to maintain a minimum cumulative grade point average of 3.4.

The John F. Reed Honors Program consists of the following core courses and additional requirements:

I. The Honors Core:

Credits

1. A minimum of four Honors Forum courses (Hon 220/420), at least two of which are at the 420 level 4
2. Formal thinking course: either Logic (Phil 271B) or Statistics (Math 201B, BA 253B, or Psych 241B) 4
3. Honors Thesis: first term, senior year (Hon 499) 1
Honors Thesis: second term, senior year (Hon 499) 1-2

II. Additional Requirements:

1. Completion of General Distribution requirements.
2. Proficiency in a foreign language through the intermediate level (equivalent to the second term of the second year).
3. Cumulative grade point average of at least 3.4.

HONORS 220 HONORS FORUM

(1-0) 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. Works to be selected might include books, articles, theatre productions, or invited speakers. Faculty will help lead the discussions initially, but students will be expected to participate fully and eventually to carry on the discussions with minimal faculty

supervision. There will be no lectures or exams, but students must keep and submit a journal detailing their understanding of, and responses to, assigned material. Grading is on a satisfactory/unsatisfactory basis. A satisfactory grade will require the student's active participation in accord with the intent of the course expressed above. It is the student's responsibility to contribute to discussion on the basis of a thorough preparation for the meetings. Honors 220 is for freshmen and sophomores. Course is repeatable for credit.

Prerequisites: Prior acceptance into Honors Program, Comp 150, and consent of instructor.

HONORS 420 HONORS FORUM (1-0) 1

This course continues the series of Honors Forums required for John F. Reed Honors students. Juniors and seniors should sign up for Hon 420. In addition to keeping a journal, students must write a term paper synthesizing and developing their insights from the works

studied during the term. Honors 420 students are expected to initiate topics and lead discussions. Grading is on a satisfactory/unsatisfactory basis. A satisfactory grade will depend on superior performance on writing assignments and conscientious class participation. Course is repeatable for credit.

Prerequisites: Prior acceptance into Honors Program, Comp 150, and consent of instructor.

HONORS 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.

SPECIAL ACADEMIC PROGRAMS

Cooperative Education Program

Cooperative Education is an academic unit of the College that grants elective credit. The Cooperative Education Program (Co-op) is designed to assist students in applying valuable classroom knowledge to practical work and internship experiences. It also provides an opportunity for career exploration. Co-op at Fort Lewis was established in 1970 as the first college-level co-op program in the state of Colorado. More than 200 Fort Lewis students per calendar year participate in the program.

Generally, students are eligible to participate in Co-op after they have completed their freshman year with a minimum 2.5 cumulative grade point average. Plans for enrollment should be initiated with the Co-op Director and the student's advisor in the semester prior to the experience. The Co-op work experience normally corresponds to the academic trimester. No adding of Co-op credits will be permitted after the deadline for adding classes (census date).

The first step involves an interview with the Co-op Director during which a written essay is submitted on the student's learning objectives for the Co-op experience. The decision to admit a student into Co-op and to award final credit reside with the Director of Cooperative Education.

The Director assists students in defining career goals and locating appropriate placements. Student initiative is also supported and encouraged in designing internships and in contacting prospective employers. Students may work with private or public employers throughout the United States.

Cooperative Education credits are counted as general electives. They can be earned under the headings of Co-op 200, 300 or 400. The level and amount of credit depend on a variety of factors. The nature of the work experience is evaluated in the context of the student's course background, and career and personal goals, before a final determination is made on an individual basis for both the level and amount of Co-op credit.

The general criteria for a 200-level experience are that the student will be undertaking career exploration or is beginning an entry-level position that is related to the major. First-time Co-op experiences are typically 200-level, particularly for students with lower-division standing.

A 300-level Co-op experience typically applies to upper-division students who bring a significant degree of appropriate course work into the workplace. Such students may qualify for 300-level credit in their first Co-op placement.

A 400-level experience is for seniors in their second or third placement where they have obtained a promotion to higher responsibilities than in their previous 300-level placement.

The guideline for awarding credit is that one semester hour of Co-op general elective credit may be earned in a trimester for each 50 contact hours on the job. The student's major requirements and limits imposed by the major on general elective credits are taken into account.

Co-op students have represented all majors at Fort Lewis; however, departments and schools vary in the number of elective hours accepted toward graduation. It is possible to apply up to 12 Co-op elective credits toward graduation in some programs. The School of Business Administration allows a maximum of 10 Co-op credits to apply toward graduation. It is the student's responsibility to verify the number of elective credits available in his/her degree program. In addition, the student should have the Co-op plan evaluated by his or her academic advisor.

Cooperative Education students analyze their work experience in the form of a daily work journal and a formal typed paper at the end of the trimester. These written materials are evaluated by the Co-op Director. This is done in cooperation with other faculty members whenever appropriate. Grading is on a credit (S) or no-credit (NC) basis.

At the beginning of the work experience an on-the-job supervisor is identified for each student. The supervisor submits a written performance evaluation at the end of the trimester to the Co-op Director. This document becomes part of the overall evaluation process.

The Cooperative Education Program operates through the calendar year and enrolls students for the fall, winter and summer trimesters. Each student receives a complete program information packet which includes instructions, policies, a listing of due dates, a job description form, a learning objectives statement, guidelines for journals and final papers, and a publication from the National Commission for Cooperative Education, of which Fort Lewis College is a member. Students who are based in Durango pay regular tuition and fees. Students who work outside a 20-mile radius of the college pay regular tuition and reduced fees.

The Director of Cooperative Education at Fort Lewis assists all students without discrimination.

Extended Studies

Fort Lewis College Extended Studies extends the resources of the campus to the community to satisfy personal and professional needs for lifelong learning. The non-credit program emphasizes business development courses, Southwest culture, liberal arts and recreational learning. Travel courses are a growing part of the program.

Specialized college credit courses designed for professional enhancement and scheduled for the convenience of adults are also offered. (Regular FLC classes are also open to the community if space is available; contact the Admission Office for information on unclassified student applications.)

The Extended Studies program will develop and support on- and off-campus courses geared to specific audiences and specialized needs. Currently active are off-campus degree-completion and teacher certification programs. Address your inquiries to the Director of Extended Studies.

The Japan Program

The Japan Program was established at Fort Lewis College in 1975. As of 1998, 130 Fort Lewis students have studied in Japan and have lived with Japanese families.

Some former Japan Program students have entered graduate school in international management and have developed careers in international business, often with the assistance of the Japan Program staff at Fort Lewis College. The Japan Program also places Fort Lewis graduates in teaching positions in Japan and arranges visiting professorships for faculty members.

The Japan Program staff arranges visits to the Fort Lewis campus for Japanese groups and formal study for Japanese students who wish to enroll in American colleges. The 10-week summer intensive English program at Fort Lewis usually enrolls 30 to 40 Japanese students. Between 60 and 70 students from Japan are continuously enrolled at Fort Lewis as regular degree students.

Programs in Mexico

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 trimesters. 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 interested in a Study Abroad experience in Mexico must discuss various opportunities with members of the Modern Language or Sociology Department and the Records Office.

School of Business Administration Trimester Abroad in Europe

The School of Business Administration conducts a trimester program at a site in Europe, with the courses taught in English by FLC faculty. Because there is no additional tuition for this program, it turns out to be quite inexpensive compared to many Semester Abroad Programs offered by other colleges and universities. While the program of courses is directed primarily at Business School students in their Junior year, it is open to all FLC students with junior standing and have completed the appropriate prerequisite courses.

Students interested in this program should see the more detailed description under the Business Administration section of the Catalog and contact the Assistant Dean of the School of Business Administration.

International Student Exchange

The College has exchange agreements with École Supérieure de Commerce de La Rochelle (France), École Supérieure de Commerce International du Pas-de-Calais (France), École Supérieure des Sciences Commerciales d'Angers (France), Université Catholique de L'Ouest (France), Université de Savoie (France), Escuela Superior de Marketing de Bilbao (Spain), Universidad de Cordoba (Spain), University of the Basque Country (Spain), Fachhochschule Regensburg (Germany), Fachhochschule Dusseldorf (Germany), Norwegian School of Management, Åbo Akademi University (Finland), University of Örebro (Sweden), Southern Denmark Business School, Amsterdam School of Business (The Netherlands), Maastricht University (Netherlands), Slovak University of Education, Slovak University of Agriculture and the University of Northumbria (United Kingdom). Programs in France, Spain and Germany require second-year language fluency. The remainder are in English. These programs are open to all students; business schools in Europe usually teach an array of liberal arts courses.

Students interested in schools in countries other than those mentioned should check with the International Programs Coordinator since the College is actively expanding its exchange partnerships. In addition, other study abroad programs are accessible through the National Student Exchange and other consortial arrangements.

With the exception of the Japan and Mexico programs, and the SOBA 's Trimester Abroad, students interested in study abroad should contact the International Programs Coordinator.

International Dual Degree Program

Through partnership with École Supérieure de Commerce de La Rochelle (France), students can earn degrees from both that school and Fort Lewis by spending two years at each school.

National Student Exchange

National Student Exchange gives FLC students the opportunity to enhance their education by studying for one or two semesters on another campus in the NSE network of nearly 130 colleges and

universities in the United States. FLC students pay FLC tuition and fees or resident tuition and fees at the host campus. Applications are due during February for the next academic year.

Credits and grades earned on exchange are incorporated into the student's FLC record and grade-point average. Financial aid normally can be arranged as usual.

To qualify for participation in NSE, a student should: (1) be a full-time FLC student; (2) be a sophomore or junior at the time of exchange; and (3) have a grade-point average of 2.5 or better.

Information and applications may be obtained from the Assistant Vice President for Academic Affairs.

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.

Innovative Months

Each year a selection of "innovative month" courses offers focused and in-depth study. These are typically six-credit courses which 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; travel to nations as divergent as Ladakh, Germany, Spain and Guatemala focusing on political, cultural and economic change. These courses are announced during the fall term for the coming summer.

ACADEMIC POLICIES

Grading

The quality of a student's work is appraised according to grade point averages. Fort Lewis uses the four-point system, which assesses grade points as follows:

A = 4 points	C = 2 points
A- = 3.75	C- = 1.75 points
B+ = 3.25 points	D = 1.25 points
B = 3 points	D = 1 point
B- = 2.75 points	D = .75 point
C+ = 2.25	F = 0 points

The grade point average, carried to two decimal places, will be computed by dividing the total number of grade points by the total number of credits attempted. Grades of X, S, P, W, NC and NG do not affect the grade point average.

The grade of X means the student has passed a course by special examination, CLEP, AP, or credit based on ACT scores or military service.

The grade of P means that the student has passed a course on a Pass-Fail basis. The student must request this option at the time of registration.

The grade of W signifies that the student has withdrawn from the course while passing. After census date, the instructor must assign a W or an F.

The grade of S (credit) means that the student has successfully completed the course.

The grade of NC (No Credit) means that the student did not complete the course. No credit is given nor is the grade figured in the grade point average. Certain courses are designated by the college to be S or NC graded courses.

The grade of NG (No Grade) indicates that the instructor did not report a grade by the deadline for submission of final grades.

Incompletes. A grade of Incomplete (I) is a student-initiated grade which must have the instructor's approval. It is appropriate only under the following conditions:

1. The major part of the course requirements has been met.
2. The student is unable to complete the requirements in the term in which the course is taken for compelling and unforeseen reasons.
3. In the opinion of the instructor, the requirements can be completed by the student without repeating the course.

If the course requirements are not completed within one year after the end of the appropriate term, the incomplete grade will revert to an F. (See below for the single exception to this change.) The dean of the school in which the course is offered may waive for good reason the one-year deadline upon petition by the student. If, within the time allotted, the student completes the course requirements, the instructor will initiate the grade change by filing a Special Grade Report form.

When giving an Incomplete, the faculty member must file a Report of an Incomplete form with the dean and the Records Office, specifying in detail: (1) what work must be done in order to remove the Incomplete, and (2) the time deadline for completing the work. The student should sign this form at the time it is prepared. A copy of the form should be given to the student. An Incomplete cannot be removed by registering to repeat the course. When the student cannot complete the course material without repeating the course, he or she should not receive an Incomplete; W or F would be more appropriate.

A course for which a student has a grade of I at the time of graduation **cannot** be used to satisfy any graduation or major requirement and is not counted in units attempted or GPA. In the event that a student has graduated prior to removing the Incomplete, the I grade will remain permanently on the graduate's transcript.

Grade Replacement Policy. When a course is repeated, all grades for that course will remain on the student's record, but the credit will count only once. For the first 12 credits of repetition of courses in which the initial grade was C- or less, only the last grade earned will be counted in the grade point average. When a course for which the initial grade was C or better is repeated, or when a student has already excluded 12 credits of C- or lower grades from his grade point average, there shall be no exclusion of grades from the grade point average. The student should notify the Records Office of what courses to use for these 12 credits.

Satisfactory - No Credit Option. Courses that primarily utilize field experience may, at the discretion of the sponsoring school, be graded either "satisfactory - no credit," or with the traditional "A through F" letter grade system.

Should the "satisfactory - no credit" option be used, the courses may still be applied to either the major or General Distribution Requirements.

Pass-Fail Electives. Students with a cumulative average of at least a C are permitted to take up to four pass-fail electives during their undergraduate career. The pass-fail basis is limited to elective courses only. Pass-fail may not apply to General Studies Requirements, Departmental Requirements or Teacher Education Requirements. Students may take no more than one pass-fail elective in any one trimester and no more than 18 credits may be taken during the term they are carrying the pass-fail elective. Freshmen may not choose a course on this basis before their second term. Students taking a pass-fail elective must fulfill all necessary prerequisites for that course. Changes to or from pass-fail status after the beginning of a term are limited to the normal period for adding courses.

Audit. Students may audit courses with the permission of the instructor if they desire to attend classes regularly but do not wish to receive grades and credit. Upon registration, the students must declare whether they wish to take a course for audit or for credit. Students may not change from audit or credit, or vice versa, after the closing date for adding classes in each trimester. When registering, students may take both audit and credit courses but the total should not exceed a normal load. Students auditing courses are required to pay fees at the same rate as if enrolled for credit.

Students who wish to audit a course and later wish to obtain credit for it may do so by special examination, which requires an additional fee.

Attendance

Regular class attendance is expected. Each instructor keeps a record of student absences and determines the extent to which absences affect final grades.

Final Exams

The number and type of examinations in any particular course are determined by the instructor. Separate days are set aside for the final examinations at the close of each trimester. It is the student's responsibility to take all examinations or to arrange for exceptions directly with the instructor.

Academic Progress

Fort Lewis College students are generally given two trimesters to make proper academic adjustments to college, but anyone not doing satisfactory academic work may receive a probation or suspension notice at any time.

An overall grade point average of 2.0 is considered satisfactory progress toward a degree. A grade point average of less than 2.0 will result in a student being placed on probation, suspension or dismissal from college. A student who has been suspended may petition for readmission after completion of the student's suspension period. However, such petition does not guarantee readmission.

The Academic Standards Committee reviews students based on cumulative grade point average and trimester grade point average based on the students' class levels. Listed below are class levels and cumulative grade point averages or below that are subject to suspension or academic dismissal.

<u>Class</u>	<u>Cumulative Grade Point Average</u>
Freshman, first term	1.00
Freshman	1.50
Sophomore	1.60
Junior	1.85
Senior	1.95

Academic Renewal

A transfer or returning Fort Lewis College student who has not attended any college for at least five years (60 consecutive months) may apply for "academic renewal." Academic renewal is defined as the elimination of the student's entire previous academic record, including credits earned and grade point average. A student requesting academic renewal normally applies during the first year of resumed studies at Fort Lewis. In some cases, students may request academic renewal at the time that their application materials are complete with the Admission Office. A student requesting academic renewal must submit a written petition to the Academic Standards Committee within a year of resumption of studies. If the petition is granted, the student's permanent record will denote "ACADEMIC RENEWAL APPROVED" with the date. Students granted academic renewal must make satisfactory academic progress, if not, the student is then subject to review.

Dean's List/Graduating with Honors

The Dean's List, published at the end of each trimester, honors students for high scholastic achievement. Students who attain a grade point average of 3.4 or better in not less than 14 hours of graded credit and who have completed all work for which they are registered by the end of the term will be listed for that term.

To graduate with honors, students must have earned in residence at Fort Lewis at least the same number of credit hours

that are required for their major. No honors are awarded upon receipt of a second bachelor's degree. Grade point averages required for honors are as follows:

Summa cum laude	Grade point average of 3.8 to 4.0
Magna cum laude	Grade point average of 3.6 to 3.7
Cum laude	Grade point average of 3.4 to 3.5

Graduation with "honors" depends wholly on achieving a high grade point average. It should not be confused with participation in the John F. Reed Honors Program described on Page 40.

ACADEMIC PROCEDURES

Registration

Fort Lewis College faculty and staff believe advising contributes to a student's success; therefore the college encourages all students to seek academic advising. Some students are required to see an advisor. They are:

1. First-time students at Fort Lewis College,
2. Students with less than a 2.00 GPA,
3. Students with less than 30 cumulative credit hours.

Students in one of these categories must have an authorization number to register their class over OPUS, telephone registration system. Your advisor will provide an authorization number when advising is completed.

Faculty advisors are available for all students to answer questions about classes and programs; to review your past, current and proposed course work; to guide your educational planning; and to help you with academic and related problems.

Fall and Winter Trimesters

Early Registration for continuing students is held in mid-November for the winter trimester and in late March for the fall trimester. Students register through an Interactive Voice Response System; OPUS, 970-247-6787.

Freshmen early register through one of the Student Orientation Advising and Registration Programs (SOAR). Five of these programs are offered in the summer for the fall trimester and one is offered prior to the beginning of the term for the winter trimester.

Transfer students also early register through the Transfer Student Orientation Advising and Registration Program (SOAR).

Continuing, former, and unclassified students may early register for the fall trimester through OPUS telephone registration at any time following early registration.

Summer Sessions

Registration for students for any of the three five-week summer sessions can be done on OPUS beginning late March.

Dates and Additional Information

Dates for registration policies and procedures are published in the Schedule of Courses for any term.

Students who initially register for the term after the first day of classes, will be assessed a late registration charge.

Classification

A regular student is one who has been admitted to the College and has declared an intention to pursue the requirements for the baccalaureate or associate degree.

Regular students are classified as follows according to semester credits completed:

Freshman	Fewer than 30 semester credits
Sophomore	30-59 semester credits
Junior	60-89 semester credits
Senior	90 or more semester credits

An unclassified student is one who has been permitted to enroll but who does not intend to work toward a degree.

Special Scheduling

In exceptional cases, a regularly offered course not scheduled during a term may be taken on a non-scheduled basis when approved by the instructor, department chair and the appropriate dean. The Schedule Modification for Non-Scheduled Courses form is available in the Records Office.

Academic Advising

Upon entering the College, each student is assigned an academic advisor. The program of courses selected by the student is reviewed by the advisor; the advisor also is available to counsel with the student about career plans and long-term academic programs and objectives. As the career and academic plans of the student evolve, he or she may select an advisor whose interests and specializations are consistent with the student's goals. Fort Lewis believes deeply in the importance of academic advising and encourages all students to make liberal use of the opportunity to meet and confer with their academic advisors.

Course Load

The normal student load in a given trimester is 16 semester credits. A 3-credit course will customarily meet three hours per week, a 5-credit course, five hours per week. Students should plan to spend a minimum of two hours of outside preparation per week for every credit carried during the fall and winter trimesters.

Full-Time Load

Full-time load for enrollment certification for Veterans Benefit, athletics, loans, etc., is 12 credits per semester. Various agencies have different regulations for full-time loads during the three summer sessions. Full-time load for enrollment certification will vary depending on the agency concerned.

Program Changes

Once a student has registered and confirmed a given set of courses, records are established and no courses are dropped from or added to the student's official registration except on forms provided by the Records Office. Such changes are the responsibility of the individual student, who must make arrangements with the Records Office and the instructor(s) concerned. Dates, fees and other details are published in the Schedule of Courses for each term.

As of 4 p.m. on the Census Day for any trimester or five-week summer session, all courses for which a student has registered will appear on the student's permanent academic record. Up through this date, all courses dropped from a student's registration will not appear on the student's permanent academic record. Census Day is published in the Schedule of Courses for each term.

A student has the right to withdraw from a class. After census date, the instructor must assign a W or an F.

Effective Catalog

The academic policies and regulations are changed by the College from time to time. The set of regulations (as published in the catalog) apply to a given student is determined by the following rule: all students intending to graduate from Fort Lewis College must meet the course requirements for graduation set forth in the catalog in effect at the time of their matriculation or the one in effect by the time of their graduation. Students may choose between the catalogs but may not combine them. Regulations other than course requirements will apply according to the catalog in effect at the time of graduation except as new regulations have other effective, specifically fixed dates. However, no catalog more than 10 years old at the time of the student's graduation will be accepted as the source of graduation requirements. A student who matriculated more than 10 years before graduation will meet the requirements of the catalog in effect at the time of graduation, or may petition the Vice President for Academic Affairs to be permitted to graduate

under some intervening catalog not more than 10 years old. Any student who is not registered at Fort Lewis College for any continuous period of two calendar years or more forfeits his claim to the catalog under which he entered and comes under the catalog in effect at the time he next returns to Fort Lewis College as a student. Students also have the right of appeal to the Vice President for Academic Affairs for use of an earlier catalog.

The College reserves the right to cancel a class (for that trimester) if enrollment is not deemed sufficient.

Transcripts

The first official transcript (record of grades) for a Fort Lewis College student is supplied free of charge. All accounts with Fort Lewis must be settled before a transcript may be issued. Transcripts are processed as rapidly as possible and are usually issued within three working days from the date of request. However, at the end of a term, it takes five to 10 working days to issue a transcript. Transcript requests must be made in writing and signed by the student. Requests are sent to the Records Office, Fort Lewis College, 1000 Rim Drive, Durango CO 81301-3999.

Family Educational Rights and Privacy Act (FERPA)

FERPA defines the requirements for access to, and release of, student education records. Student education records are defined as records that are directly related to a student and are maintained by an educational institution. Student education records include enrollment records and billing records. In general, the education records of a student may be disclosed only to the student, parents of dependent students, academic advisor, or to those faculty or staff members who must have access to the records to perform their duties unless the student provides prior written consent to disclose their records to other persons. The following student information is designated as public or directory information: name, addresses, telephone numbers, e-mail addresses, dates of attendance, registration status, classification, major field of study, awards, honors, degree(s) conferred, past and present activities in officially recognized sports and activities, and date and place of birth.

Under the Family Educational Rights and Privacy Act, students have the right to review their own records, to seek correction of information contained in those records, and to limit disclosure of information. To review their records, students need to contact the appropriate administrative office and schedule an appointment. Academic records are housed in the Records Office, billing records are available in the Accounts Receivable Office. The administrative office will arrange to make the records available within three (3) working days. To withhold disclosure of directory information, students must submit a completed "Confidentiality" form available at the Records Office. Students may choose to complete a "FERPA Release" form, authorizing the college to release information to a specified third party. This form is also available at the Records Office.

ACADEMIC SUPPORT PROGRAMS

The Library

The John F. Reed Library and Audiovisual Center serve as a research center for the campus and the Four Corners Region. The Reed Library is also a teaching library that promotes learning through research collaboration in a high-technological environment supported by knowledgeable, skilled professionals. The library is an important catalyst for the intellectual life of the student. It acts as a gateway to research information in all formats: printed books and journals, Internet sources, multimedia CD-ROMs, videos, sound recordings and more. Fort Lewis College students learn to locate, analyze and use in research projects a full array of information technologies, preparing them for success in their careers, graduate studies or other aspects of their lives.

Faculty, librarians, computer and media staff and students work together in the Reed Library's dynamic research environment. The library provides a setting which encourages intellectual curiosity supported by a variety of materials as well as access to electronic information available through the campus LAN and the Internet. The library contains more than 170,000 books, 38,600 microforms and 900 journal subscriptions as well as eclectic collections of videos, sound recordings and multimedia software.

Librarians and other Fort Lewis College faculty recognize the need for students to become knowledgeable users and producers of information - to participate actively in academic life. Research has become increasingly rich and diverse due to the Internet and other electronic information and communication media. In order for students to thrive in a changing electronic environment, they need to master concepts and skills in the areas of computer technology, library database searching, evaluation of information sources, Internet searching and more. Library faculty teach a required course, Information Literacy (LIB 150), which allows students to build a foundation of knowledge and skills in these areas.

The Audiovisual Center supports creative approaches to instruction and learning. The center assists students and faculty in producing a variety of nonprint materials including color or black and white overhead transparencies, digitized images for use in creating electronic and print materials, videotaped or computerized presentations and more. The center also has, available for use by students and faculty, equipment which includes camcorders, laptop computers and LCD display panels or data projectors for use with presentation software, VCRs and TVS, CD and cassette tape players and more.

The Reed Library uses the INNOPAC online system as its library catalog. This system offers a friendly yet powerful interface for searching the library's holdings, as well as collections at other libraries. The library is also a member of OCLC (On-line Computer Library Center). Students may search the 30 million plus holdings of this database via the First Search. The interlibrary loan service allows students to borrow from their libraries items not owned by the Reed Library.

The Reed Library and the Audiovisual Center provide a rich environment promoting research and production of high quality information products. Students are encouraged to use the facilities and services provided to achieve academic and personal growth.

Center of Southwest Studies

Established in 1964 and located on the top floor of the John F. Reed Library, the Center of Southwest Studies serves the College and community as a museum, a research and teaching facility, and the physical focus for an interdisciplinary approach to the history and culture of the Southwest. The Colorado Commission on Higher Education has recognized the Southwest Studies Center as a program of excellence in state-funded higher education.

The Center's goal is to facilitate understanding of the Southwest through acquiring, preserving, exhibiting and otherwise providing access to collection materials. Along with serving as the repository for the College Archives, the Center is a locus of research and teaching relating to the Four Corners Region and Native Americans of the Southwest. Primary-source research materials at the Center focus on the disciplines of anthropology, archaeology, archival/museum management, the arts, history, literature and sociology.

The Center's holdings which focus on the Four Corners region include more than 8,000 artifacts, more than 13,000 volumes cataloged in MARMOT along with Reed Library holdings, numerous periodicals (listed in the Reed Library periodicals holdings printouts), and nearly 400 special collections dating from prehistory to the present. These include more than 2,000 linear shelf feet of manuscripts and unbound printed materials, more than 7,000 rolls of microfilm, including about 3,000 rolls of historic Southwest region newspapers, more than 600 oral histories, and more than 35,000 photographs. Strengths in the Center's collections of artifacts, (which, with Anthropology Department holdings, amount to more than 4,000 linear shelf feet of objects), include more than 2,000 Ancestral Pueblo ceramic vessels, 150 Navajo textiles, 140 items of Southwestern basketry, numerous military objects from the days of the old Fort Lewis, and about 200 pieces of antique photographic equipment. Most of the materials in the Center's collections were donated, from more than 500 documented sources.

The Center's special collections holdings are strongest in the areas of:

- Native Americans of the Southwest (especially their artifacts, artistic and ethnographic works, and government relations).
- Local/regional affairs (including newspapers, community, business, politics and government of Durango and La Plata County).
- Mining of coal and precious metals in the Four Corners region (including gold, silver, uranium and vanadium).
- Water and water rights in the Four Corners region.
- Electricity generation and transmission, and other energy issues of the Southwest.
- Narrow gauge railroads of the San Juan Basin.

The Center of Southwest Studies cooperates with other museums and historical repositories and with city, county, state, federal and tribal agencies in the Four Corners region. Its outreach includes public lectures, symposia, an occasional papers series, an oral history program, and training in issues of archival and cultural resource management.

Office of Computing and Telecommunications

The Office of Computing and Telecommunications provides computing resources, voice and data communications systems, and technical support for the students, faculty, and staff of Fort Lewis College.

Ten college-wide computer labs are available to the general student population. College labs are located in each of the main classroom buildings, including Berndt Hall, Noble Hall, Hesperus Hall, Sage Hall and Reed Library. Windows and Macintosh computers, printers, and a wide variety of software are available. All lab computers have full Internet connections, and every registered student receives an Internet account for electronic mail. College computer labs are typically available seven days a week except during holiday periods, and any registered student has access. In addition, about twenty special-purpose labs serve students in specific academic programs and residence halls. A modem pool provides students with access to College servers and the Internet from off-campus.

Telephones and voice-mail service are provided in on-campus housing. Students make long-distance calls using a personal credit card or by reversing the charges. Collect calls are not allowed. Students may not charge long-distance calls to their residence hall phone.

Learning Assistance Center

Most students during their college careers need help in achieving their educational goals. The Learning Assistance Center exists to provide academic support to any student who requests it. This support is supplied in a number of different forms.

Courses sponsored by the Center offer students the opportunity to improve their basic skills in writing, reading and mathematics. In addition, the learning skills classes aid entering freshmen in



Members of the Skyhawk Mountain Bike team are able to smile despite the mud and rain during a training session.

developing time-management skills, proficiency in note-taking, concentration, and test-taking skills. The Center also provides a peer tutorial program. Students needing assistance in a particular subject are assigned a free tutor; students who serve as tutors receive elective credit.

To select appropriate curricula, students may benefit from diagnostic tests in reading, writing and/or mathematics. The Center's personnel can evaluate the examination results and recommend courses or individual student programs. Furthermore, the Center's staff is prepared to offer non-credit minicourses and workshops to help students overcome academic difficulties. Other available resources in the Learning Assistance Center include computerized review programs, course outline texts, handouts, individual academic counseling, and review for graduate record and teacher certification examinations.

Native American Center

The Native American Center's mission is two-fold: to promote the academic success of Indian students and to advance cultural appreciation on the Fort Lewis campus and within the Four Corners community.

The Native American Center provides a supportive environment to Indian students who are faced with the challenges of education in a multicultural society. Individual assistance and group workshops and activities address the needs and personal development of students, while campus and community events promote cultural pluralism on campus and in the Four Corners community.

In coordination with college departments and several tribes, the Native American Center offers academic, service, experiential and cultural approaches that relate to academic programs, student services, community services, social and living experiences, and cultural activities. Faculty from various departments on campus hold office hours in the Native American Center to provide assistance to students.

Located in the Miller Student Center, the Native American Center is an informal gathering place where students may meet for tutoring, studying or just socializing with friends. It is also the meeting place of the Native American clubs on campus and the hub of many academic, cultural and social events.

"El Centro" Latino Student Center

"El Centro" is located in #3 North Complex. It is the home of organizations and activities which serve the needs of Latino students and students who are interested in Spanish and Latin American culture. Information is available on scholarships, academic assistance and graduate opportunities. Comfortable space to study and socialize, as well as a kitchen, are available. The center hosts a growing collection of academic and cultural resources. Everyone is welcomed. Opportunities are provided to practice Spanish.

The goals of "El Centro" are to provide the support needed to make school life more relevant, to increase enrollment and graduation of all minority students, and broaden knowledge of Hispano heritage.

Program for Academic Advancement

The Program for Academic Advancement (a federally funded TRIO program) is the place on campus where students can get the guidance and help they need to succeed at Fort Lewis College. PAA offers these individualized services to program participants:

- individual or group tutoring in any subject;
- financial aid advice and assistance in completing applications for federal, state, local and private sources of financial aid;
- guidance in course selection and in developing an individualized academic plan;
- peer mentors who offer personal advising, assistance and support;
- a private computer lab networked to the college system and software for individual tutorials in biology, math, calculus, English, reading, writing, typing, and GRE preparation (new software is added constantly);
- a lending library;
- academic and college survival workshops in math and writing skills, note taking, dealing with test anxiety, test taking, budgeting money, time management, using e-mail and the World Wide Web and all aspects of graduate school preparation;
- personal and career planning;
- field trips to regional graduate schools twice each year for juniors and seniors;
- monitored study halls, mid-term "study fests" and finals review sessions;
- a fall picnic, a holiday party and a spring recognition banquet;
- a variety of cultural programs and activities.

Tutoring and Peer Mentoring

PAA's tutoring program is nationally certified by the College Reading and Learning Association. All program tutors are upper-division Fort Lewis College students who have excelled in the courses in which they are tutoring and who have completed a tutor training program through PAA.

Peer mentors are PAA participants who have demonstrated leadership and academic success and a commitment to helping other PAA participants succeed at Fort Lewis College. They act as guides and friends to new PAA participants providing support, advice and assistance with the adjustment to college life.

Eligibility

To be eligible for PAA, a student must meet one or more of the following requirements as established by the U.S. Department of Education:

- Be a low income individual (qualify for Federal student financial aid);
- Be a first generation college student (neither parent has completed a four-year college degree before the student is 18 years old);
- Be a student with a documented disability;
- Be enrolled or accepted for enrollment as a degree-seeking student at FLC;
- Be a U.S. citizen or national or meet the requirements for Federal student financial assistance.
- Have a need for academic support to be able to succeed in college.



Engineering Professor Omnia El-Hakim confers with a student during a meeting of the FLC student chapter of the American Indian Science and Engineering Society. The FLC chapter won the National Chapter of the Year award in 1997.

Application Process

A simple application process is required to document eligibility and to identify the academic and other needs of the student. After being admitted into PAA, each new participant meets with the program advisor to design an academic plan. Participant academic progress is monitored and help is available if needed at every step of the way.

PAA offers a variety of workshops to help participants improve their study habits and math and writing skills. Workshops that teach participants how to budget money and manage time more effectively are also available. Monitored study halls, mid-term study "fests" and finals review sessions are held so participants can study with others during the year. PAA will assist participants with personal concerns that may be affecting their ability to do their best at Fort Lewis College. All PAA services are free to program participants.

Financial Aid

The PAA staff is trained to answer participant questions and provide assistance with Federal financial aid application forms. They can also help participants locate scholarships, grants and other forms of financial aid through private sources. A software search program is available for participants to identify all types of assistance for which they may qualify. The PAA lending library is well-stocked with current literature on thousands of sources of financial aid.

The Fort Lewis College Financial Aid Administrator provides a workshop on applying for financial aid twice each year specifically for PAA participants. PAA staff work closely with the Fort Lewis College Financial Aid office to assist participants with any questions or concerns about their financial aid package.

Student Responsibilities to PAA

PAA participants are expected to be dedicated to the goal of academic success at Fort Lewis College. PAA offers extensive, individualized assistance and support to its participants who, in turn, are expected to attend classes as scheduled, to meet regularly with their tutors, to attend program workshops and events and to meet regularly with the program advisor.

Center for Service Learning

The Center for Service Learning was established to support faculty and students in their efforts to integrate academic study with responsible service and activism in local and regional communities. Focusing academic resources on pressing social, environmental, economic and civic issues links campuses to communities in a dynamic partnership that both enhances students' educational experience and assists community-based groups in their vital work.

Service learning is a way for students to learn through hands-on service activities that are coordinated between campus and community. Student service is integrated into the academic curriculum to foster learning about the larger social and policy issues behind the human needs to which they are responding. Academic skills and applied knowledge are acquired within a service context that simultaneously fosters a sense of concern for others, the acceptance of civic responsibility and prepares students for involvement in their own communities.

The Center supports Fort Lewis faculty and students in three basic ways:

1. **Curriculum Integration and Development:** The Center works with the college's academic departments to integrate relevant service placements and projects with existing courses. Additionally, the center works to facilitate course development and interdepartmental cooperation around important local and regional issues.
2. **Campus-Based Service Projects:** The center works closely with community agencies and groups throughout the Four Corners Region in structuring service opportunities that enhance the student volunteer's educational experience and contribute to the work of the community group. Many projects, such as the Mentoring Project, are ongoing, campus-based projects which provide students and faculty with the opportunity for involvement throughout the academic year. Other projects are developed and expanded as interest and need dictate. Academic credit is often available through these projects.
3. **Volunteer Opportunities:** Due to its relationship with the community, the Center is able to serve as a campus-based clearinghouse for service opportunities throughout the region. Students interested in short- or long-term volunteer, service opportunities may find placement assistance through the Center. The Center also recruits students to assist with occasional and/or urgent needs that arise within the community.

Office of Community Services

The Office of Community Services has been established to offer technical assistance to a five-county area surrounding Fort Lewis College (Archuleta, La Plata, San Juan, Montezuma, Dolores). The Office has three purposes: to increase the opportunities for students and faculty to actively participate in public service projects in this region; to assist local communities with significant policy issues having to do with human service programs, natural resource management, community and economic development; and to ensure an educational partnership between students, faculty and citizens by establishing a community service learning process supported by Fort Lewis College curriculum resources. The Office of Community Services contributes to the accomplishment of the College's mission in regard to public service by offering students an opportunity to gain valuable experience in direct community involvement.

The Office of Community Services has developed research activities in the areas of community studies, ethnography and public policy analysis. Projects have been established that offer students and faculty a variety of opportunities to conduct applied research on public interest issues, concerning community and social development.

Each public service project is initiated by a community request; linkages to the community are established through a local task force of appointed leaders. Students and faculty provide assistance to the community task force in setting its goals, collecting needed research data, and identifying alternative policy, planning and physical design solutions. Each project establishes a problem-oriented learning process for both the students and the community, guided by Office of Community Services staff and Fort Lewis College faculty members.

PROGRAMS OF STUDY

Index

School of Arts and Sciences	53
Agriculture	54
Anthropology	55
Art	56
Biology	57
Chemistry	59
Communications	60
Community Services	60
Computer Science Information Systems (CSIS)	60
Engineering	62
English	65
Environmental Policy Minor	67
Forestry	69
French	69
General Science	70
Geographic Information Systems (GIS) Minor	70
Geography	71
Geology	71
German	73
Health Careers	73
History	73
Humanities	75
International Studies	76
Japanese	77
Latin	77
Mathematics and Statistics	77
Modern Languages	80
Degree in Spanish	
Music	81
Philosophy	83
Physical Education	84

Physical Science	84
Physics	84
Political Science.....	85
Religious Studies Minor	86
Sociology/Human Services	86
Southwest Studies	87
Spanish	88
Theatre	89
Women's Studies	90
Writing Program	91
School of Business Administration.....	93
Accounting	96
Agricultural Business	97
Business Administration	98
Economics	99
Engineering Management	100
Finance	100
International Business	101
Management	102
Marketing	103
Operations Management.....	103
Tourism & Resort Management	104
Business School Minors.....	105
School of Education	106
Teacher Education	106
Exercise Science	113
Psychology	115

THE SCHOOL OF ARTS AND SCIENCES

KAREN I. SPEAR, DEAN

DOREEN M. MEHS, ASSISTANT DEAN

Departments and Programs:

- Anthropology* - Susan M. Riches, Chair
- Art* - Laurel C. Vogl, Chair
- Biology, Agriculture and Forestry* - John M. Condie, Chair
- Chemistry* - Leslie E. Sommerville, Chair
- Community Services* - Samuel A. Burns, Director
- Computer Science Information Systems* - Evans J. Adams, Coordinator
- English* - Larry K. Hartsfield, Chair
- Environmental Policy* - Robert R. Bunting and William H. Romme, Coordinators
- Geology* - Douglas C. Brew, Chair
- History* - Doreen M. Hunter, Chair
- Humanities* - Jennifer A. Gehrman and Michael C. Anziano, Co-coordinators
- International Studies* - Edward L. Angus, Coordinator
- Mathematics* - William C. Ramaley, Chair
- Modern Languages* - Nicole Mosher, Chair
- Music* - Rochelle G. Mann, Chair
- Physics, General Science and Engineering* - Don May, Chair
- Political Science and Philosophy* - Byron Dare, Chair
- Religious Studies Minor* - James K. Ash, Director
- Sociology and Human Services* - Betty J. Leyerle, Chair
- Southwest Studies* - Richard M. Wheelock, Chair
- Theatre* - Doreen Mehs, Acting Chair
- Women's Studies* - Kathleen S. Fine-Dare, Coordinator
- Writing Program* - Carol L. Smith, Director

The programs in the School of Arts & Sciences are administered through its academic departments, but for easy reference the separate curricula are listed alphabetically.



Agriculture

Course listings for Agriculture begin on Page 120.

Associate Professor Philip E. Shuler;
Assistant Professor John W. Byrd

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 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 (production management, crop science, soil science, soil resources and conservation, and international concentrations), and Animal Sciences (industry and science concentrations).

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 economics or chemistry, which would lead to a degree in Agricultural Economics or Agricultural Chemistry.

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

REQUIREMENTS FOR AN ASSOCIATE OF ARTS DEGREE IN AGRICULTURAL SCIENCE:

	Credits
General Studies	23-28
Comp 150 Reading and Writing in College	4
LIB 150 Information Literacy	1
Approved math course (Math 110B or above, not Math 130B)	4-5
(The above math requirement does not fulfill the Group B General Distribution Requirement, although a second math course could be used.)	

Four courses to be selected from the General Distribution groups A-D, one from each group 12-16

Physical Education Activity 2

Specific Agricultural Science Requirements:

Ag 101B Introductory Animal Science 4

Ag 102B Principles of Crop Production 4

Ag 150 Farm Records and Accounts 3

Ag 380W/Bio 390W Issues in Evolution
and Biological Thought

or

Ag 385W Case Studies in Agriculture/
Resource Management 4

Total 15

Required Writing Course Within Discipline:

Included in Specific Agricultural Science Requirements above.

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

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 300D Agricultural Issues in Society 3

Ag 301 Range Management 4

Ag 325 Beef Science 3

Ag 346 Agricultural Marketing 3

Ag 350 Agricultural Law 3

Ag 370 Internship in Agriculture 3

Ag 390 Special Topics (as offered) 3-4

Total minimum 15

Suggested Electives:

Engr 103 Computer Aided Drafting

Engr 205 Surveying I

Computer Science, Economics, Chemistry, Biology,
Business Administration

TOTAL REQUIRED FOR GRADUATION 64*

*Agriculture 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.

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.

REQUIREMENTS FOR A MINOR IN AGRICULTURE:

One or both of the following:

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

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 204 Forage Production and Management	3
Ag 235 Soils and Soil Fertility	4
Ag 240 Principles of Animal Nutrition	4
Ag 300D Agricultural Issues in Society	3
Ag 301 Range Management	4
Ag 325 Beef Science	3
Ag 346 Agricultural Marketing	3
Ag 350 Agricultural Law	3
Ag 370 Internship in Agriculture	3
Ag 390 Special Topics	3-4
Total	20*

*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.

Anthropology

Course listings for Anthropology begin on Page 121.

Professors Philip G. Duke, Kathleen S. Fine-Dare, Donald R. Gordon,
W. James Judge and Susan M. Riches;
Assistant Professor David L. Kozak;
Instructor of Anthropology

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 also offers an archaeological field school program and a variety of archaeological and ethnographic innovative month trips, both on this continent and in Europe.

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

The Department of Anthropology offers two minors for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

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

	Credits
General Studies (not satisfied below under auxiliary requirements)	37-38
Specific Departmental Requirements:	
Anth 201C Introduction to Archaeology	4
Anth 210C Introduction to Sociocultural Anthropology	4
Anth 301 Biological Anthropology	4

Anth 303W Anthropological Debates	4
Anth 395C History of Anthropological Thought	4
Anth 396 Proseminar in Anthropology	2
Anth 496 Senior Capstone Seminar in Anthropology	2
Total	24

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Other Departmental Requirements:

Two additional courses in ethnology, one of which must be numbered 300 or above (choose from Anth 213CE, 215CE, 217C, 350CE, 351CE, 355C, 356C, 357CE, 361CE, 371CE, 388CE, approved *390 or 391)

6-8

Two additional courses in archaeology, one of which must be non-New World oriented (choose from Anth 220C, 259, 306C, 330C, 348C, 360C, 402, 403, 430, or approved *390 or 391 for a general or New World course; choose from Anth 308C, 309C, 340C, 341C, or approved *390 or 391 for a non-New World course)

6-8

One research-based course in anthropology (choose from Anth 306C, 356C, 357CE, 402, 403, 430, 450, 455; or specifically indicated sections of 390/391 or 499s. The 390, 391 or 499s will carry the specific notation that "this course fulfills the requirement for research-base." NOTE: One of these courses may count for two purposes, i.e., ethnology and research, or archaeology and research if it is also listed directly above)

2-4

Total

14-20

Auxiliary Requirement from another department (one of the following):	
Statistics (e.g., Math 201B, Psych 241B, BA 253B)	4
or	
Linguistics (Engl 462A1)	3
Total	3-4
Electives	42-50
TOTAL REQUIRED FOR GRADUATION	128

Strongly recommended for students going to graduate school:

- At least four trimesters of a foreign language (other than English)
- Computing expertise
- More than one research-based course

REQUIREMENTS FOR A MINOR IN SOCIOCULTURAL ANTHROPOLOGY OR ARCHAEOLOGY:

Sociocultural Anthropology	
Anth 210C Introduction to Sociocultural Anthropology	4

Anth 201C Introduction to Archaeology	
or	
Anth 301 Biological Anthropology	4
Two additional courses in sociocultural anthropology, one of which must be upper-division	6-8
Anthropology electives	6-8
Total	20-24

Archaeology	
Anth 201C Introduction to Archaeology	4
Anth 210C Introduction to Sociocultural Anthropology	
or	
Anth 301 Biological Anthropology	4
Two additional courses in archaeology, one of which must be upper-division	6-8
Anthropology electives	6-8
Total	20-24

Important: No grade of less than C will be accepted for the minor.

*Anth 390 and 391 are special topics courses announced each trimester.

Art

Course listings for Art begin on Page 123.

Professors Mick Reber, Laurel C. Vogl and C. Gerald Wells;
Associate Professors Stephen D. Britko, David J. Hunt and Susan Moss

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 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 on the Fort Lewis campus.

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

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

	Credits
General Studies	41
Specific Departmental Requirements:	
Art 101A2 Drawing	4
Art 109A2 Basic Design	4
Art 262A2 Art History to the Renaissance	4
Art 263A2 Art History from the Renaissance	4
Art 385W Contemporary Art Process, Theory and Criticism: Reading, Writing and Making	4
Art 496 Senior Seminar	3
Total	23

Writing Course Within Discipline:
Included in Specific Departmental Requirements above.

Other Departmental Requirements:	
15 credits from the remainder of Art offerings with the exception of Art 273 Art for Elementary Teachers	15
Electives	49
TOTAL REQUIRED FOR GRADUATION	128

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

Art 154A2 or 155A2 Indian Arts and Crafts	3
Art 213 Basic Sculpture	3
Art 224 Basic Painting	3
Art 231A2 Introduction to Printmaking	3
Art 243A2 Basic Photography	3
Art 250A2 Ceramics	3

(Recommended courses are Art 201 Drawing; and Art 273 Art for Elementary Teachers.)

REQUIREMENTS FOR A MINOR IN ART:

Students must complete 22 credits, including Art 101A2, 109A2 and an art history course, and have the approval of the department chair.

Biology

Course listings for Biology begin on Page 125.

Professors David W. Jamieson, J. Page Lindsey, William H. Romme, Thomas P. Sluss and L. Preston Somers;
Associate Professors Sherell Kuss Byrd, John M. Condie, Deborah M. Kendall, Joseph C. Ortega;
Assistant Professors John W. Byrd and Catherine P. Ortega

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 three options available: General Biology, Environmental Biology, and Cellular and Molecular Biology.

The General Biology option provides exposure to all the major conceptual areas of biology. It is intended for students wishing to pursue teaching and professional careers 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 government agencies concerned with natural resource management and environmental impact assessment. This curriculum also provides appropriate preparation for students interested in teaching biology at the secondary school level, as well as for those interested in graduate study in ecology and environmental science.

The Cellular and Molecular Biology option is designed to prepare students for graduate study in either molecular or cellular biology or to find employment as laboratory technicians in those areas.

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. Many positions for biologists require a graduate degree for which a liberal arts biology major is an excellent background.

Students majoring in biology 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 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.

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

The General Biology Option:

	Credits
General Studies (not satisfied below)	31
Specific Departmental Requirements:	
Bio 111B Biology of the Cell	4
Bio 206 General Botany	4
Bio 207 General Zoology	4
Bio 220 Fundamentals of Ecology	4
Bio 321 General Physiology	4
Bio 370 Genetics Laboratory	1
Bio 371 General Genetics	2
Bio 372 Evolutionary Genetics	
or	
Bio 373 Molecular Genetics	1
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Other biology courses, excluding cooperative education	11
Bio 496 Senior Seminar	1
Bio 497 Senior Seminar	1
Total	41

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Auxiliary Requirements from Other Departments:

Chem 150B-151 Fundamentals of Chemistry	11
Chem 303-304 Organic Chemistry	10
Math 221B Calculus I	
or	
Math 210B Calculus for Business and Biological Science	4/5
Psych 241B Basic Statistics for Psychologists	
or	
Math 201B Elementary Statistics	
or	
BA 253B Business Statistics	4
Total	29-30

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

 Math 222 Calculus II
 Phys 201B, 202B College Physics I
 CSIS 120B Introduction to Programming (BASIC)
 Chem 311 General Biochemistry I
 Foreign Language (French or German recommended)

Electives	26
TOTAL REQUIRED FOR GRADUATION	128

The Environmental Biology Option:

	Credits
General Studies (not satisfied below)	31
Specific Departmental Requirements:	
Bio 111B Biology of the Cell	4
Bio 206 General Botany	4
Bio 207 General Zoology	4
Bio 220 Fundamentals of Ecology	4
Bio 302 Systematic Botany	4
Bio 304 Field Zoology	5
Bio 371 General Genetics	2
Bio 372 Evolutionary Genetics	1
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Bio 471 Field Ecology	5
Other biology courses (in the 300- or 400-series)	3
Bio 496 Senior Seminar	1
Bio 497 Senior Seminar	1
Total	42
Writing Course Within Discipline: Included in Specific Departmental Requirements above.	
Auxiliary Requirements from Other Departments:	
Chem 150B-151 Fundamentals of Chemistry	11
Chem 303 Organic Chemistry	5
Chem 365 Analytical Chemistry	4
Math 221B Calculus I or Math 210B Calculus for Business and Biological Science	4-5
Math 201B Elementary Statistics, or Psych 241B Basic Statistics for Psychologists	4
Ag 301 Range Management	4
Ag 235 Soils and Soil Fertility	4
Total	36-37
Recommended electives (to be selected in consultation with student's advisor):	
Math 222 Calculus II	
Math 360B Introduction to Operations Research	
Engr 205 Surveying I	
Geol 113B Physical Geology	
CSIS 150B Introduction to Programming	
Econ 266D Principles of Economics	
Engl 363 Advanced Composition	
Chem 304 Organic Chemistry	
Chem 465 Instrumental Analytical Chemistry	
Phys 201B, 202B College Phys I	
Total Electives	18
TOTAL REQUIRED FOR GRADUATION	128

The Cellular and Molecular Biology Option:

	Credits
General Studies (not satisfied below)	31
Specific Departmental Requirements:	
Bio 111B Biology of the Cell	4
Bio 206 General Botany	4
Bio 207 General Zoology	4
Bio 321 General Physiology	4
Bio 331 Microbiology or Bio 400 Plant Physiology	4
Bio 380W/Ag 380W Issues in Evolution and Biological Thought	4
Bio 342 Embryology & Developmental Biology of Vertebrates or Bio 456 Cell Physiology	4
Bio 370 Genetics Laboratory	1
Bio 371 General Genetics	2
Bio 373 Molecular Genetics	1
Bio 433 Bacterial Physiology or Bio 455 Cell & Molecular Biology or Bio 322 Radiation Biology	4
Bio 496 Senior Seminar	1
Bio 497 Senior Seminar	1
Total	38
Writing Course Within Discipline: Included in Specific Departmental Requirements above.	
Auxiliary Requirements from Other Departments:	
Chem 150B-151 Fundamentals of Chemistry	11
Chem 303-304 Organic Chemistry	10
Math 221B Calculus I or Math 210B Calculus for Business and Biological Science	4-5
Psych 241B Basic Statistics for Psychologists or Math 201B Elementary Statistics or BA 253B Business Statistics	4
Total	29-30
Electives	29
TOTAL REQUIRED FOR GRADUATION	128
REQUIREMENTS FOR A MINOR IN BIOLOGY:	
Bio 111B Biology of the Cell	4
Bio 206 General Botany or Bio 207 General Zoology	4
Three additional biology courses, and two must be upper-division	9-12
Total	17-20

Chemistry

Course listings for Chemistry begin on Page 130.

Professors William R. Bartlett, Ron C. Estler, Rodney D. Hamilton,
William C. Langworthy, Doreen M. Mehs and James W. Mills;
Associate Professors Robert E. Milofsky and Leslie Sommerville;
Assistant Professor Joel W. Gohdes

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 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.

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

	Credits
General Studies (not satisfied below)	31
Specific Departmental Requirements:	
Chem 150B, 151 Fundamentals of Chemistry	11
Chem 303, 304 Organic Chemistry	10
Chem 311 Biochemistry	3
Chem 358, 359 Physical Chemistry	6
Chem 360 Physical Measurements	2
Chem 364 Inorganic Chemistry	2
Chem 365 Analytical Chemistry	4
Chem 465 Instrumental Analytical Chemistry	4
Chem 496, 497 Senior Seminar	2
Total	44

Writing Course Within Discipline:

Chem 300W At The Forefront of Chemical Research 3

Auxiliary Requirements from Other Departments:

Math 221B-222

Phys 217B-218B (or 201B-202B),

Total

Electives

TOTAL REQUIRED FOR GRADUATION

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

	Credits
General Studies (not satisfied below)	31

Specific Departmental Requirements:

Chem 150B-151 Fundamentals of Chemistry

Chem 303-304 Organic Chemistry

Chem 311-312-313 Biochemistry

Chem 358-359 Physical Chemistry

Chem 360 Physical Measurements

Chem 364 Inorganic Chemistry

Chem 365 Analytical Chemistry

Chem 496-497 Senior Seminar

Total

Writing Course Within Discipline:

Chem 300W At the Forefront of Chemical Research 3

Auxiliary Requirements from Other Departments:

Biology* (two of the following)

Bio 321 General Physiology

Bio 331 Microbiology

Bio 371 General Genetics

Bio 455 Cellular and Molecular Biology

Math 221B-222

Phys 217B-218B (or 201B-202B)

Total

Electives

TOTAL REQUIRED FOR GRADUATION

*See your advisor for assistance in making your selection; these courses have prerequisites.

REQUIREMENTS FOR A MINOR IN CHEMISTRY:

Chem 150B-151 Fundamentals of Chemistry	11
Chem 303 Organic Chemistry	
or	
Chem 364 Inorganic Chemistry	2-5
Chem 365 Analytical Chemistry	4
One of the following:	
Chem 305 Natural Products from Plants	
Chem 311 General Biochemistry I	
Chem 358 Physical Chemistry	3
Total	20-23

**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 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 Preparatory Programs section of this catalog.)

TEACHING IN CHEMISTRY

Students majoring in chemistry may be certified to teach science at either the secondary or elementary levels. To obtain requirements for teacher certification, students should contact the Department of Teacher Education and the Chemistry Department chair.

Communications

(See Communications Option in
English Section of this catalog on Page 65.)

Community Services

(See Page 50.)

Computer Science Information Systems (CSIS)

Course listings for Computer Science Information Systems begin on Page 132.

Professors Evans J. Adams, Gregory W. Bell, Roger P. Peters and Laszlo Szuecs;
Associate Professors Lawrence S. Corman, Carla C. Williams and James A. Wixom;
Assistant Professor Craig E. Young

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 may specialize in these fields by choosing the Computer Science Option or the Information Systems Option described below. Students who prefer more flexibility in tailoring the curriculum to their specific interests should choose the General Option.

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 systems 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.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE WITH A MAJOR IN COMPUTER SCIENCE INFORMATION SYSTEMS (CSIS):

The General Option:

	Credits
General Distribution Requirements	41
Required CSIS Courses:	
CSIS 105 The Computer As A Tool	4
CSIS 110B Introduction to Programming (C++)	4
CSIS 230 Object-Oriented Programming in C++	4
CSIS 310 Data Structures	4
or	
CSIS 350 Database Management Systems	4
CSIS 421 Operating Systems	4
or	
CSIS 450 Parallel Programming	4
or	
CSIS 430 Data Communications	4
CSIS 496 Senior Seminar	2
Writing Course Within Discipline:	
GS 361W Computers and Human Issues	4
CSIS Electives:	
16 additional hours of CSIS courses, 12 of which must be numbered over 300, chosen with approval of CSIS faculty	16
Total	42
Auxiliary Course Requirements:	
Math 201B Elementary Statistics	4
or	
BA 253B Business Statistics	4
Math 210B Calculus for Business	4/5
or	
Math 221B Calculus I	4/5
Math 320 Numerical Analysis	4
or	
BA 353 Operations Management	3-4
or	
Math 360B Introduction to Operations Research	3-4
Total	11-13
General Electives	32-34
TOTAL REQUIRED FOR GRADUATION	128

The Computer Science Option:

	Credits
General Distribution Requirements	41
Required CSIS Courses:	
CSIS 105 The Computer As A Tool	4
CSIS 110B Introduction to Programming (C++)	4
CSIS 230 Object-Oriented Programming in C++	4
CSIS 310 Data Structures	4
CSIS 320 Assembly Language Programming	4
CSIS 321 Computer Architecture and Organization	4
CSIS 421 Operating Systems	4
or	
CSIS 450 Parallel Programming	4
or	
CSIS 430 Data Communications	4
CSIS 496 Senior Seminar	2
Writing Course Within Discipline:	
GS 361W Computers and Human Issues	4
CSIS Electives:	
Eight additional hours of CSIS courses numbered above 300, chosen with the approval of CSIS faculty	8
Total	42
Auxiliary Course Requirements:	
Math 201B Elementary Statistics	4
Math 221B Calculus I	5
Math 305B Discrete Mathematical Structures	3
Math 320 Numerical Analysis	3
or	
Math 360B Introduction to Operations Research	3-4
Total	15-16
General Electives	29-30
TOTAL REQUIRED FOR GRADUATION	128
The Information Systems Option:	
	Credits
General Distribution Requirements	41
Required CSIS Courses:	
CSIS 105 The Computer As A Tool	4
CSIS 110B Introduction to Programming (C++)	4
CSIS 240 Advanced Programming (COBOL)	4
CSIS 350 Database Management Systems	4
CSIS 360 Software Engineering I: Systems Analysis	4
CSIS 370 Software Engineering II: Systems Design and Implementation	4
CSIS 496 Senior Seminar	2

Writing Course Within Discipline:	
GS 361W Computers and Human Issues	4
CSIS Electives	
12 additional hours of CSIS courses, eight of which must be numbered above 300 chosen with the approval of CSIS faculty	12
Total	42
Auxiliary Course Requirements:	
Math 201B Elementary Statistics	
or	
BA 253B Business Statistics	4
Math 210B Calculus for Business	4
BA 353 Operations Management	
or	
Math 360B Introduction to Operations Research	4
Total	12
General Electives	33
TOTAL REQUIRED FOR GRADUATION	128

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.

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE INFORMATION SYSTEMS:

CSIS 110B Introduction to Programming (C++)	4
and	
CSIS 230 Object-Oriented Programming in C++	4
or	
CSIS 240 Advanced Programming (COBOL)	4
Three additional CSIS courses (excluding CSIS 101 and 102), at least 2 of which are numbered above 300	12
Total	20

Engineering

Course listings for Engineering begin on Page 139.

Professors Omnia I. El-Hakim and Tom D. Norton;
Associate Professors Don R. May and Carla C. Williams

The engineering program at Fort Lewis College is designed primarily 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 which includes, in addition to engineering, courses in mathematics, the sciences, and the humanities, students are eligible for full junior standing at one of the institutions with which Fort Lewis maintains a transfer agreement.

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, the University of Southern Colorado (USC) 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. 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. 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
University of Southern Colorado - 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 that only those courses in which a student received a C or higher will transfer.)

Although the above plans pertain specifically to the agreements with Colorado State University, Colorado School of Mines, the University of New Mexico, the University of Southern Colorado, the University of Colorado, and New Mexico State University, 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 if interested in a student-constructed major in one of these areas.

As a cooperative effort between the engineering program and the School of Business Administration, a four-year degree program is available in Engineering Management. For more information, please see the School of 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, 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



Students work on assignments in one of the college's computer labs.
Photo by Marwa Mohamed

computing labs which are generally open seven days a week. These facilities include IBM-compatible microcomputers, Apple Macintoshes and laser printers. Internet connectivity is provided through the campus network; modem access is also available.

Credits

CSU TRANSFER AGREEMENT

Engr 104B Computer Programming 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
Comp 150 Reading and Writing in College	4
Math 221B, 222, 223 Calculus I, II, III	13
Math 327 Differential Equations	3
Phys 217B, 218B Physics - Science and Engineering	10
Chem 150B, 151* Fundamentals of Chemistry	11
Humanities and Social Sciences Electives	6
PE Act Physical Activities	2

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

CSM TRANSFER AGREEMENT

Specific courses required of all students:

Comp 150 Reading and Writing in College	4
Math 221B, 222, 223, Calculus I, II, III	13
Math 327 Differential Equations	3
Engr 103 Computer Aided Drafting	3
Engr 104B Computer Programming for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 217 Statics	3
Chem 150B, 151, Fundamentals of Chemistry	11
Geol 113B Physical Geology and Laboratory	4
Phys 217B, 218B Physics - Science and Engineering I, II	10
Econ 266D Principles of Economics	4
PE Act Physical Activities	2
Humanities and Social Sciences Electives	9

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

Engr 201, 202 Electric Networks I, II	4
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 114B Historical Geology and Laboratory	4
CSIS 110B Introduction to Programming C++	4
Math 311B Matrices and Linear Algebra	3
Math 320 Numerical Analysis	3
Chem 358 Physical Chemistry	3
Phys 320 Modern Physics	3

CU TRANSFER AGREEMENTCommon courses required of most students:

Engr 104B Computer Programming for Scientists and Engineers	3
Engr 105* Engineering Principles	3
Engr 201 Electric Networks I	3
Engr 217* Statics	3
Math 221B, 222, 223, Calculus I, II, III	13
Math 311B Matrices and Linear Algebra	3
Math 327 Differential Equations	3
Chem 150B Fundamentals of Chemistry	5.5
Phys 217B, 218B Physics - Science and Engineering I, II	10
Humanities and Social Sciences Electives	6-9

*Electrical, Electrical and Computer Engineering majors take Engr 238 and 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 221B, 222, 223, Calculus I, II, III	13
Chem 150B, 151, Fundamentals of Chemistry	11
Engr 104B Computer Programming for Scientists and Engineering	3
Engr 105 Engineering Principles	3
Phys 217B, 218B Physics - Science and Engineering I, II	10
Engr 201 Electric Networks I	4
Math 327 Differential Equations	3
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 311B Matrices and Linear Algebra	3
CSIS 230 Object Oriented Programming in C++	4
Chem 303, 304, Organic Chemistry I, II	10
Econ 266D Principles of Economics	4
Bio 100BL, 111B Introduction to Biology	4
Bio 207 General Zoology	4
Humanities and Social Sciences Electives	

USC TRANSFER AGREEMENT FOR INDUSTRIAL ENGINEERING

Engr 103 Computer Aided Drafting	3
Engr 104B Introduction to Computer Programming	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 221B, 222, Calculus I, II,	13
Math 311B Matrices and Linear Algebra	4
Math 327 Differential Equations	3
Phys 217B Physics - Science and Engineering I, II	10
Chem 150B, Fundamentals of Chemistry	11
Comp 150 Reading and Writing in College	4
Humanities and Social Sciences Elective	3

NMSU TRANSFER AGREEMENT

Common courses required of all students:

Comp 150 Reading and Writing in College	4
Math 221B, 222, 223 Calculus I, II, II	13
Chem 150B Fundamentals of Chemistry	5.5
Phys 217B, 218B Physics - Science and Engineering I, II	10
Engr 103 Computer Aided Drafting	3
Engr 104B Computer Programming 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 266D Principles of Economics	4
Thea 121 Speech communication	3
Humanities and Social Sciences Electives	9

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

REQUIREMENTS FOR A MINOR IN ENGINEERING:

Engr 104B Computer Programming for Scientists and Engineers	3
Engr 105 Engineering Principles	3
Engr 217 Statics	3

Plus three additional Engineering courses numbered 200 or above.

English

Course listings for English begin on Page 139.

Professors Gordon P. Cheesewright, Larry K. Hartsfield, Roland C. Jones,
Mary Jean Moseley, Paul N. Pavich, Karen I. Spear and Shaila Van Sickle;
Associate Professors Faron L. Scott and James B. Wehmeyer;
Assistant Professors Margarita Barceló, Jennie C. Dear, Katherine Wolfe Farnsley,
Jennifer A. Gehrman, Parmita Kapadia, Michele M. Malach and Delilah G. Orr

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 the Division of Intercultural Studies.

Verbal skills are valued in many professions. 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 three options:

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

The Communications Option: An English major with a communications emphasis.

The English Education Option: Preparation for secondary school teaching.

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

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

The General Option:

	Credits
General Studies (not satisfied below)	37-38

Specific Departmental Requirements:

Choose one course from the following four courses:

- Engl 173E 20th Century Asian and African Literature
- Engl 174A1 African American Literature
- Engl 175A1 Women's Literature
- Engl 280A1 Literature of the Southwest 3
- Engl 268W Reading Texts/Writing Texts 4
- Engl 230A1 Survey of British Literature 4
- Engl 240A1 Survey of American Literature 4
- Engl 320A1 The Novel 4

- Engl 315 Media Writing: Topics
or
Engl 363 Advanced Composition
or
Engl 464A1 Creative Writing..... 4
- Engl 432A1 Shakespeare 3
- Engl 461A1 History of the English Language
or
Engl 462A1 Linguistics 3
- Engl 496 Senior Seminar 2-3
Engl 499 cannot replace Engl 496.
Choose one Topics course in British Literature
from Engl 336, 337, 338, 339, 430 3
Choose one Topics course in American
Literature from Engl 345, 346, 380E,
385E, 386E 3
Choose two additional Topics courses from:
Engl 315, 317, 330, 336, 337, 338, 339, 345,
346, 380E, 385E, 386E, 420E, 423, 430, 475,
476, Theatre 330A2, 340A2, 350A2, 381A2 6
- Total Departmental Requirements 42-43

Writing Course Within Discipline:
Included in Specific Departmental Requirements above.

Auxiliary Requirements:
Two trimesters of one college-level modern language 6-8

Electives 39-43
(English advisors can help students choose electives which will further their individual career goals.)

TOTAL REQUIRED FOR GRADUATION 128

The Communications Option:

	Credits
General Studies (not satisfied below)	41

Specific Departmental Requirements:

- Engl 116A1 Introduction to Mass Communications 3

Choose one course from the following four courses:

- Engl 173E 20th Century Asian and African Literature
- Engl 174A1 African American Literature
- Engl 175A1 Women's Literature
- Engl 280A1 Literature of the Southwest 3

Engl 215 News Media Writing	4
Engl 230A1 Survey of British Literature or Engl 240A1 Survey of American Literature	4
Engl 268W Reading Texts/Writing Texts	4
Engl 304 Video Production or Engl 306 Radio Broadcasting	3
Engl 315 Media Writing: Topics or Engl 363 Advanced Composition or Engl 464A1 Creative Writing	4
Engl 416A1 Media Theory and Criticism	3
Choose three Topics courses from the following, one of which must be chosen from Engl 346, 475 or 476 (excluding Engl 315 if used to satisfy other major requirements) Engl 315, 317, 320, 330, 336, 337, 338, 339, 345, 346, 380E, 385E, 386E, 420E, 423, 430, 475, 476, Theatre 330A2, 340A2, 350A2, 381A2	9-10
Engl 496 Senior Seminar	2-3
Engl 499 cannot replace Engl 496.	
At least 4 credits from: Engl 250/350 Practicum -- Newspaper Engl 251/351 Practicum-Radio Engl 252/352 Practicum-Television (Students are allowed a maximum of 18 credits toward graduation in practicum courses in any combination of the following: Engl 250, 251, 252, 350, 351, 352.)	
Total Departmental Requirements	43-45
Writing Course Within Discipline: Included in Specific Departmental Requirements above.	
Electives 42-44 (English advisors can help students select courses which will further strengthen their individual career goals.)	
TOTAL REQUIRED FOR GRADUATION	128

The 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.

Credits

General Studies (not satisfied below) 37

Specific Departmental Requirements:

Engl 116A1 Introduction to Mass Communications	3
Engl 221A1 Classical Literature	3
Engl 230A1 Survey of British Literature	4
Engl 240A1 Survey of American Literature	4
Engl 268W Reading Texts/Writing Texts	4
Engl 320A1 The Novel	4
Engl 366 Teaching Writing	4
Choose any two three-hour Topics courses from the following: Engl 336, 337, 338, 339, 345, 346, 420, 423, 430, 475, 476*	6
Engl 378A1 Literature for the Adolescent	3
Engl 432A1 Shakespeare	3
Engl 461A1 History of the English Language	3
Engl 462A1 Linguistics	3
Engl 483 Materials of Instruction in Teaching High School English	3
Engl 496 Senior Seminar*	3
PREREQUISITE: One Survey course and at least two Topics courses. Engl 499 cannot replace Engl 496.	

Total Departmental Requirements 50 minimum

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Auxiliary Requirement:

Two trimesters of one college-level modern language*	6-8
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*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 the requirements marked with an asterisk. Also, these students do not have to meet the two-trimester requirement in a modern language.

Electives 33-35

Refer to Education Section of the Catalog for specific Secondary License Requirements which students must complete.

TOTAL REQUIRED FOR GRADUATION 128

REQUIREMENTS FOR MINORS IN LITERATURE, WRITING AND COMMUNICATIONS:

The Minor in Literature: This minor requires 20 credit hours. The following courses are required:

Engl 230A1 Survey of British Literature	4
Engl 240A1 Survey of American Literature	4
Engl 432A1 Shakespeare	3

Three upper-division literature courses selected from:

Engl 320A1 The Novel	
Engl 330A1 Continental Literature: Topics	
Engl 336 British Renaissance Literature: Topics	
Engl 337 18th Century British Literature: Topics	
Engl 338 British Romantic Literature: Topics	
Engl 339 British Victorian Literature: Topics	
Engl 345 American Literature: Topics I	
Engl 346 American Literature: Topics II	
Engl 380E Native American Literature: Topics	
Engl 385E Contemporary Native American Novelists: Topics	
Engl 386E Native American Autobiography: Topics	
Engl 420E World Literary Traditions: Topics	
Engl 423 Genres: Topics	
Engl 430 Medieval Literature and Chaucer: Topics	
Engl 475 Modern Literature: Topics	
Engl 476 Contemporary Literature: Topics	9-10
Total	20-21

The Minor in Writing: This minor requires 22 credit hours. The following courses are required:

Engl 230A1 Survey of British Literature	
or	

Engl 240A1 Survey of American Literature	4
Engl 268W Reading Texts/Writing Texts	4
Engl 315 Media Writing: Topics	4
Engl 320A1 The Novel	3
Engl 363 Advanced Composition	4
Engl 464A1 Creative Writing	4
Total	23

The Minor in Communications: This minor requires 23 credit hours.

The following courses are required:

Engl 116A1 Introduction to Mass Communications	3
Engl 215 News Media Writing	4
Engl 268W Reading Texts/Writing Texts	4
Engl 304 Video Production	
or	
Engl 306 Radio Broadcasting	3
Engl 315 Media Writing: Topics	
or	
Engl 363 Advanced Composition	4
Engl 416A1 Media Theory and Criticism	3
Two credits from:	
Engl 250/350 Practicum -- Newspaper	
or	
Engl 251/351 Practicum -- Radio	
or	
Engl 252/352 Practicum -- Television	2
Total	23

Environmental Policy Minor

Coordinators

Robert R. Bunting, William H. Romme

Advisors

Robert R. Bunting, History; Reyes R. García, Philosophy; Donald R. Gordon, Anthropology; Marilyn S. Leftwich, Psychology; Dale E. Lehman, Economics; William H. Romme, Biology

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 which 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.

There are three components to the minor.

- Students select 18 hours from a list of existing courses representing the spectrum of perspectives on environmental issues (see below).
- 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 group B or major requirements as well as the minor.
- Finally there is an integrative capstone course taken in the junior or senior year in which students and faculty of varied backgrounds come together to work on joint projects related to local, regional or national environmental concerns.

REQUIREMENTS FOR THE ENVIRONMENTAL POLICY MINOR:

Specific Requirements:

1. GS 495 Environmental Colloquium 4
2. 18 hours of additional credit, chosen from the list below, at least nine hours of which must be upper-division credit. 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.)

Agriculture:

- Ag 300D Agricultural Issues in Society 3
 Ag 301 Range Management 4

Anthropology:

- Anth 356C Ecological Anthropology 4

Biology:

- Bio 120B Environmental Conservation 3
 Bio 220 Fundamentals of Ecology 4
 Bio 471 Field Ecology 5

Chemistry:

- Chem 123B/323B Chemistry for Consumers 3



A student unlocks his bike from a rack at the College Union Building. On-campus apartments are in the background.

Photo by Marwa Mohamed

Economics:

- Econ 335D Environmental Economics 4
 (TRST 92 or better)

Engineering:

- Engr 205 Surveying I 4

Geography:

- Geog 271D World Geography 3
 Geog 320B Natural Regions of North America 3

Geology:

- Geol 110B Earth Science 3
 Geol 325 Introduction to Remote Sensing 3
 Geol 401B Natural Resources and the Environment 3

History:

- Hist 136C U.S. Environmental History 3

Philosophy:

- Phil 252C Environmental Ethics 4

Physics:

- Phys 400 Science and Human Values 2

Political Science:

- PS 305D Environmental Politics 3

Sociology:

- Soc 310D Ecology and Society 4

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

Auxiliary Requirements:

These can all be counted as General Distribution requirements:

1. One course in statistics (choose from Psych 241B, Math 201B, BA 253B)
2. Two laboratory science courses, which may be chosen from any of the following:

Group B general distribution requirements

Course(s) taken as part of the major

Course(s) from the following list:

- Bio 110B Survey of Life Sciences, plus Bio 100BL 4
 Bio 111B Biology of the Cell 4
 Chem 150B Fundamentals of Chemistry 5.5
 GnSc 105B The Physical Sciences, plus GnSc 100BL 4
 Phys 201B College Physics I 5
 Phys 202 B College Physics II 5

NOTE: Satisfaction of this auxiliary requirement may be accomplished by selecting lab courses for two of the three Group B General Distribution requirements.

Forestry

Course listings for Forestry on Page 144.

Fort Lewis College has formal transfer agreements with Colorado State University and Northern Arizona University 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 Colorado State University or from Northern Arizona University.

Students who transfer to Colorado State University can complete a degree in any of the 12 majors/concentrations areas listed at the end of this section. Northern Arizona University offers a single degree program in Forestry - concentration in Multiresource Management. It is an integrated, team-taught curriculum emphasizing multiresource management. Students learn to address the impacts of land management decisions on all resources including timber, wildlife, range, water, recreation and scenic beauty.

To transfer to Colorado State University, 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.

To transfer to Northern Arizona University, a student must:

1. Be enrolled in the forestry program at Fort Lewis College for at least one semester.

2. Have an overall grade point average of at least 2.5 (for early and automatic acceptance by NAU) or 2.0 for possible acceptance).
3. Complete at least 61.5 credits in the forestry program at Fort Lewis College.

Students interested in transferring to either Colorado State University or Northern Arizona University 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.

Majors and concentrations to complete a degree at Colorado State University:

Watershed Sciences

Forestry - Concentrations in Forest Management and Forest Fire Science

Forestry - Concentration in Forestry Business

Forestry - Concentration in Forest Biology

Forestry - Concentration in Wood Science and Technology

Natural Resources Management

Range and Forest Management

Range Ecology - Concentrations in Land

Rehabilitation and Range Ecology

Fishery Biology

Wildlife Biology

Recreational Resources Management

Concentrations in:

Recreation Resource Administration and

Resource Interpretation

Recreation Resources Management - Concentration in

Commercial Recreation and Tourism

French

See Modern Languages on Page 80. Course listings begin on Page 144.



Students, faculty and staff take time out from their busy day to walk a meditation labyrinth as part of a Wellness Committee activity.

General Science

Course listings for General Science begin on Page 145.

Please see the chair of the department where your concentration is for additional information.

The general science major is a broad interdisciplinary major in the traditional fields of science. The general science major provides excellent education in the sciences within the broad context of a liberal arts curriculum. The program offers a concentration of courses in which the students take a broad sampling of courses in the sciences and 20 to 25 credit hours in a concentration in one of the sciences (biology, chemistry, geology or physics).

The program is designed for students who wish to explore the intellectual challenges of the sciences without specializing in any particular science at the undergraduate level. It offers appropriate preparation for careers in secondary science education, in elementary education, in many allied health fields, in environmental law, in science and technology management, and for admission to medical, dental and veterinary schools. It is not recommended for students who wish to pursue graduate research studies in any of the four sciences.

For more information, contact the chair of the department in which you intend to concentrate.

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

	Credits
General Studies (not satisfied below)	31
General Requirements:	
Bio 111B, 206, 207 Introductory Biology	12
Chem 150B-151 Fundamentals of Chemistry	11
Chem 303, 323 or 365	3-5
Phys 201B and 202B (or 217B and 218B)	
Introductory Physics	10
Phys 320 Modern Physics	3
Geol 113B, 114B Physical and Historical Geology	8

Geol 320, 332 or 401B	3
Math through 221B	5
Senior Seminar (in area of concentration)	2
Total	57-59

Writing Course Within Discipline:
See Department Chair in your area of concentration for approved course.

Additional Requirements depending on concentration selected:

Biology Concentration:	
Bio 220 Fundamentals of Ecology	4
Bio 321 General Physiology	4
Bio 371 General Genetics	2
Total	10

Chemistry Concentration (two of the following):	
Chem 303 Organic Chemistry	5
Chem 358 Physical Chemistry	3
Chem 365 Analytical Chemistry	4
Total	7-9

Geology Concentration:	
Geol 207 Mineralogy	3
Geol 210 Petrology	4
Geol Any upper-division course	3-4
Total	10-11

Physics Concentration:	
Any two upper-division courses	6-8

Electives

TOTAL REQUIRED FOR GRADUATION 128

Geographic Information Systems (GIS) Minor

Advisors

Robert W. Blair, Jr., Geology; David A. Gonzales, Geology; James W. Judge, Anthropology;
Donald R. May, Engineering; William H. Romme, Biology

Geographic information science is a new field that merges skills and theory across many different disciplines, such as archaeology, biology, engineering, geology, as well as geography. These skills are also applicable to the social sciences, business and education. The workhorse tool used in this new field is the geographic information system or GIS. A GIS is a database storage system which analyses spatial data for the purpose of characterizing and solving real world problems. Completion of the GIS minor will provide the student with skills and experience in the five essential elements of a geographic information system. These elements include data acquisition, preprocessing, data management, manipulation and analysis and product generation.

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

1. GIS Courses:	
Geog 200 Introduction to GIS	3
Geog 400 Advanced GIS	4
Geog 495 GIS Colloquium/Seminar	2
Total	9

2. Cartography, surveying, and related courses:	
Engr 205 Surveying I	4
Engr 305 Surveying II	4
Total	8

3. Computer courses:	
Engr 103 Computer Aided Drafting	3
CSIS 110B Introduction Programming (C++)	4
or	
CSIS 150B/Engr104B Introduction to Programming (Fortran)	3
or	
CSIS 120 Introduction to Programming (BASIC)	3
Total	6-7

Total hours for the minor: 23-24

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

Geol 113B Physical Geology	4
Geol 325 Introduction to Remote Sensing	3
CSIS 230 Object-Oriented Programming in C++	4
CSIS 350 Database Management Systems	3
Math 201B, BA 253B or Psych 241B Statistics	4

Geography

(See Geography in Course Listings on Page 145.)

Geology

Course listings for Geology begin on Page 145.

Professors Robert W. Blair, Jr. and Douglas C. Brew
Associate Professors James D. Collier and Thomas N. Westervelt
Assistant Professor David A. Gonzales

The department offers a Bachelor of Science degree in Geology with three different options: Geology, Environmental Geology and Geology for Liberal Arts. 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 Geology for Liberal Arts option is designed for students interested in learning about geology but without specific career goals in geology. All three options offer appropriate preparation for students interested in teaching geology at the secondary school level.

The study of geology 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.

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

Geology Option

General Studies (not satisfied below) 31

Specific Departmental Requirements:

Geol 113B Physical Geology	4
Geol 114B Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 208 Optical Mineralogy	4
Geol 210 Petrology	3
Geol 323 Geomorphology	4
Geol 333 Introductory Paleontology	4
Geol 337 Structural Geology	4
Geol 361 Stratigraphy and Sedimentation	3
Geol 363 Sedimentary Petrology	
or	
Geol 364 Igneous and Metamorphic Petrology	4
Geol 441 Field Geology	6
Geol 496 Senior Seminar	2

Total 47

Writing Course Within Discipline:

Geol 380W Technical Writing in Geology	3
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Auxiliary Requirements:

Chem 150B-151	11
Phys 201B and Phys 202B	
or Phys 217B and 218B	10
Math 221B and 222 or Math 201B or BA 253B	
or Psych 241B or Geol 405	8-9

Total 29-30

Electives 17-18

TOTAL REQUIRED FOR GRADUATION 128

Environmental Geology Option

	Credits
General Studies (not specified below)	31
Specific Departmental Requirements:	
Geol 113B Physical Geology	4
Geol 114B Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	3
Geol 323 Geomorphology	4
Geol 361 Stratigraphy and Sedimentation	3
Geol 337 Structural Geology	4
Geol 405 Geologic Data Analysis and Modeling by Computer	4
Geol 420 Introduction to Geochemistry	3
Geol 430 Engineering Geology	
<i>or</i>	
Geol 325 Introduction to Remote Sensing	3
Geol 435 Groundwater Geology	3
Geol 441 Field Geology	6
Geol 496 Senior Seminar	2
Total	48
Writing Course Within Discipline:	
Geol 380W Technical Writing in Geology	3
Auxiliary Requirements:	
Chem 150B-151	11
Math 201B, 221B and 222	13
Total	24
Electives	22
TOTAL REQUIRED FOR GRADUATION	128

The following additional courses are recommended for the major in Environmental Geology (some of the courses satisfy group requirements in General Studies).

Credits	
Ag 235 Soils and Soil Fertility	4
Bio 120B Environmental Conservation	3
Chem 365 Analytical Chemistry	4
Geol 401B Natural Resources and the Environment	3
PS 305D Environmental Politics	3
Soc 380D Work and Authority in Society	4
Psych 157D Introduction to Psychology	3

Geology for Liberal Arts

	Credits
General Studies (not satisfied below)	31
Specific Departmental Requirements:	
Geol 113B Physical Geology	4
Geol 114B Historical Geology	4
Geol 202 Geologic Methods	2
Geol 207 Mineralogy	3
Geol 210 Petrology	3
Geol 323 Geomorphology	4
Geol 332 Plate Tectonics	3
Geol 111 Ancient Life	3
<i>or</i>	
Geol 333 Introductory Paleontology	4
Geol 361 Stratigraphy and Sedimentation	3
Geol 401B Natural Resources and the Environment	3
Geog 320B Natural Regions of North America	
<i>or</i>	
Geol 415 Regional Geology of the United States	3
Geol 496 Senior Seminar	2
Total	37 or 38
Writing Course Within Discipline:	
Geol 380W Technical Writing in Geology	3
Auxiliary Requirements:	
Chem 150B-151	11
Math 121B	5
Total	16
Electives	40-41
TOTAL REQUIRED FOR GRADUATION	128
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
Geol 415 Regional Geology of the U.S.
French, German or Spanish
Engr 205 Surveying I
Engr 103 Computer Aided Drafting

REQUIREMENTS FOR A MINOR IN GEOLOGY:

Specific Departmental Requirements:	
Geol 113B Physical Geology	4
Geol 114B Historical Geology	4
Geol 207 Mineralogy	3
Geol 210 Petrology	3
Total	14
Upper-Division Geology Electives	10
Total	24

German

(See *Modern Languages* on Page 80. See *course listings* on Page 147.)

Health Careers Preparatory Programs

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 which 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.

Specific preprofessional course requirements vary significantly depending upon the health field chosen. All professional schools, however, prefer those students who have had a broad undergraduate education, a solid foundation in the natural sciences who possess 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. Although most pre-health professions students have majored in biology or chemistry, most professional schools will consider graduates in other major fields who have met the basic requirements for admission.

Students may pursue courses at Fort Lewis College which 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 preprofessional 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 Preprofessional 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.

History

Course listings for History begin on Page 148.

Professors Doreen Hunter, Reece C. Kelly and Duane A. Smith;
Associate Professors James K. Ash, Neil McHugh and Michael Fry;
Assistant Professor Robert R. Bunting

The Department of History offers a wide variety of courses which 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 government, as well as the training needed for success in graduate school.

Courses numbered 100 are broad topical courses designed for students seeking to meet their general education requirements. 200-

level courses are "survey" courses providing overviews of the history of regions and periods. These are the foundation courses for history majors and ideal courses for those seeking to meet their general education requirements. Courses designated 300 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:

1. Familiarize students with the history of human experience in at least three regions of the world.
2. 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.
3. Encourage an understanding of how different societies in different times and places have constructed class, race and gender.
4. Develop critical thinking -- rigorous, fair-minded, nuanced.
5. 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.
6. Cultivate in students an understanding of the complex epistemological challenges involved in doing history.
7. Help students appreciate that a historical understanding of the human experience can contribute in vital ways to a responsible and reflective life.

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

	Credits
General Studies	41

Lower-division History Requirements:

Survey sequence in the area of concentration (6 credits):

Areas of Concentration:

- African History
- United States History
- East Asian History
- European History
- Latin American History
- Student-Constructed Concentration

Three additional survey courses (9 credits):

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 at least two areas.

Hist 396W, The 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

Total 44-48

Writing Course Within Discipline:

Included in Departmental Requirements above.

Auxiliary Requirements:

Two courses in one modern language (6-8)

Five courses selected among three of the following disciplines:

- Anthropology (except Anth 301, 350CE, 496 and 499)
- Art 162A2, 262A2, 263A2, 265A2, 365A2E and 486
- Economics (except Econ 201)
- English 125A1, 173E, 174A1, 175A1, 221A1, 230A1, 240A1, 272A1, 280A1, 320A1, 336, 337, 338, 339, 345, 346, 370A1, 380E, 430, 432A1, 461A1, 475 and 476

Geography 271D

- Philosophy (except Phil 496 and 499)
- Political Science (except PS 350, 450, 496 and 499)
- Psychology 157D, 387, 425 and 499
- Sociology (except Soc 353D, 496 and 499)

Total 21-28

Electives 8-18

TOTAL REQUIRED FOR GRADUATION 128

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.

Humanities

Coordinators

Associate Professor Michael Anziano and Assistant Professor Jennifer Gehrman

Humanities Advisors

Professor Susan M. Riches, Anthropology; Professor Laurel C. Vogl or Associate Professor Susan M. Moss, Art;
 Professor Vernon E. Lynch, Jr., Economics; Professor Larry K. Hartsfield; Professor Paul N. Pavich or
 Assistant Professor Jennifer Gehrman, English; Professor Reece C. Kelly, History; Professor Reinaldo M. Alcazar, Modern Language;
 Professor Rochelle Mann, Music; Associate Professor Dugald Owen, Philosophy; Professor Byron Dare, Political Science;
 Professor Thomas A. Skurky or Associate Professor Michael Anziano, Psychology; Associate Professor Dennis W. Lum, Sociology;
 Professor Dinah L. Leavitt, Theatre

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 for upper division courses. Students majoring in humanities must choose advisors from the disciplines of their primary concentrations. Humanities majors seeking Elementary Teaching Certification should also choose an advisor in the Teacher Education Department. 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 Studies 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 history courses and two studio courses required
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	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 towards a primary or secondary concentration
Sociology	
Theatre	Thea 101, 121, and 210 do 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:

	Credits
General Studies (not satisfied below)	19-29
Writing Course Within Discipline: See Department Chair in your area of concentration for approved course	3-4
Primary Concentration (to include 496 Senior Seminar or GS 496)	30
Two Secondary Concentrations (12 credits each)	24
Auxiliary Requirements: Two trimesters of one college-level modern language	6-8
Electives	33-46
TOTAL REQUIRED FOR GRADUATION	128



A student feeds a horse at the Westerner's Club petting zoo held every spring on campus.

International Studies Program

Coordinator

Professor Edward L. Angus

The intent of this curricular program is to offer the student an inter-disciplinary introduction to the multifaceted nature of international and inter-state relations. Students wishing this major must follow the format for a student-constructed major. (See Page .) 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 which 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.

Language

Listed below are the possible geographical designations with the appropriate language courses. The language section includes a total of 12 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 French, German or Spanish
	6 hours of upper-level French, German or Spanish
Latin America:	6 hours of intermediate Spanish
	6 hours of upper-level Spanish
Asia:	6 hours of beginning Japanese
	6 hours of cultural Japanese
Africa:	6 hours of intermediate French
	6 hours of upper-division French
Total	12

Geography

Each student in International Studies should take:
Geog 271 World Geography 3

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 341CE Contemporary Africa	4
Hist 342CE West Africa	4
Hist 344CE Northeast Africa	4
Hist 346CE South Africa	4
Hist 349CE Islam in History	4
Hist 362CE Soviet Union: Stalin to Gorbachev	4
Hist 363CE Collapse of the Soviet Union	3
Hist 365C Germany, 1919 to Present	4
Hist 371CE History of Central America	4
Hist 372CE United States-Latin American Relations	4
Hist 373CE History of Mexico	4
Hist 440CE Advanced Studies in African History	4
Hist 450CE Advanced Studies in East Asian History	4
Hist 465C Advanced Studies in European History	4
Hist 475CE Advanced Studies in Latin American History	4
Total	7-8

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 280DE and PS 320D.

PS 280DE Introduction to Comparative Politics	4
PS 300D Religion and Politics	3
PS 305D Environmental Politics	3
PS 320D International Politics	3
PS 322DE International Political Economy	3
PS 325DE Middle East Politics	3
PS 337D U.S. Foreign Policy	3
PS 360DE Revolution and the Modern World	3
PS 365DE Women and Development	3
PS 370DE Latin American Politics	3
PS 372DE African Politics and Development	3
PS 374DE Pacific Rim Politics and Issues	3
PS 380DE Comparative Communist Systems	3
PS 385CD Twentieth-Century Socialism	3
Total	10

Business

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

BA 309W International Management	3
BA 349W Global Marketing	4
BA 271 Principles of International Business	2
BA 389 International Finance	4
Total	2-4

Economics		Anth 353CE Ethnology of India	4
Each student, regardless of specific area of focus, is urged to select from the following courses offered by the Department of Economics.		Anth 355C Anthropology of Gender	4
Econ 370 Topics in International Economics	1-6	Anth 356C Ecological Anthropology	4
Econ 371D International Economics	4	Anth 371CE Ethnology of Amazonian South America	4
Econ 410D Economics, A Radical Perspective	4	Total	11
Total	8	Sociology/Human Services	
Anthropology		Each student, regardless of geographical area of concentration is urged to take the following courses in Sociology/Human Services.	
Each student in International Studies should take Anthropology 210C and Anth 217C, regardless of geographical area of concentration.		Soc 301DE Comparative Societies	4
Anth 210C Introduction to Cultural and Social Anthropology	4	Soc 376D Language and Social Behavior	4
Anth 217C Cultural Images of Women and Men	4	Total	8
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:		Writing Course:	
Anth 350CE Ethnology of Mesoamerica	4	Writing Course in appropriate discipline/department	3-4
Anth 351CE Ethnology of Andean South America	4	Independent Study or Senior Seminar	
		in appropriate discipline/department	2-3
		TOTAL HOURS FOR INTERNATIONAL STUDIES PROGRAM	66-71

Japanese

(See *Modern Languages on Page 80. See course listings on Page 151.*)

Latin

(See *Modern Languages on Page 80. See course listings on Page 151.*)

Mathematics and Statistics

Course listings for Mathematics begin on Page 151.

Professors Evans J. Adams, Gregory W. Bell, Annette J. Cooper, Gary W. Grefsrud,
William C. Ramaley, Laszlo Szuecs and Raymond E. Williams;
Associate Professors Deborah L. Berrier, Thomas L. Schaffter,
Richard C. Walker and James A. Wixom

Society as a whole is becoming increasingly dependent upon solving complex problems of a numerical, quantitative and statistical nature which require logical thought. The Mathematics Department meets this demand by preparing its students for teaching careers, graduate school, or employment in such fields as computer science, statistics, engineering, business, biometrics, the actuarial sciences and other areas involving mathematics.

Increasingly, mathematical applications depend on the use of a computer and/or calculator. To facilitate the training of students in these areas, Fort Lewis College has modern interactive computing systems with video and hard copy terminals. Students are required to have a Department approved graphing calculator in a number of mathematics and statistics classes. Department approved calculators and courses which have a graphing calculator requirement are given in the schedule of classes each term. Instructor approval is required for any calculator other than those approved by the Department.

MATHEMATICS MAJOR AND OPTIONS

A flexible curriculum has been designed which consists of four different options within the mathematics major. These options are computer science, middle-secondary school teaching, probability and statistics, and general. Preparation for Actuarial Science is available. They provide the student with an opportunity to develop creative mathematical talents within areas of personal interest. Specific requirements for each option follow.

TEACHER EDUCATION

The mathematics major who plans to teach in a senior high school must complete Math 223, 301B, 310, 325, 342, 385 and 386. The Middle-Secondary Teaching Option is intended for those who plan to teach at the junior high or middle school level. A Bachelor of Arts degree in Mathematics, Middle-Secondary Teaching Option, is awarded only upon successful completion of all courses required for secondary school teacher licensing and middle school endorsement. To obtain requirements for teacher licensing, please contact the Department of Teacher Education.

MATHEMATICS MINORS

Minors are available in mathematics and probability and statistics for students majoring in other disciplines. Requirements for these minors are listed at the end of this section.

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

The General Option:

	Credits
General Studies	41
Specific Departmental Requirements:	
Math 201B Elementary Statistics	4
Math 221B, 222, 223 Calculus I, II, III	13
Math 301B Foundations for Advanced Mathematics	3
Math 385 Algebraic Structures I <i>and</i>	
Math 386 Algebraic Structures II <i>or</i>	
Math 422 Advanced Calculus I <i>and</i>	
Math 423 Advanced Calculus II	6
Total	26
Writing Course Within Discipline:	
Math 300W Writing in Mathematics	3
Other Departmental Requirements:	
Additional courses numbered above	
Math 300 (except Math 315B)	12
Math 496 Mathematics Senior Seminar <i>or</i>	
Math 497 Mathematics Education Senior Seminar	3
Total	15
Auxiliary Requirements: (should be taken first year at Fort Lewis)	
CSIS 106B Introduction to Programming in Visual Basic	4
<i>or</i>	
CSIS 150B (Engr 104B) Introduction to Programming (FORTRAN)	3
<i>or</i>	
CSIS 110B Introduction to Programming (C++)	4
Total	3-4
Electives	39-40
TOTAL REQUIRED FOR GRADUATION	128

The Computer Science Option:

	Credits
General Studies	41
Mathematics Requirements:	
Math 201B Elementary Statistics	4
Math 221B, 222 Calculus I, II	9
Math 305B Discrete Mathematical Structures	4
Math 311B Matrices and Linear Algebra	3
Math 320 Numerical Analysis <i>or</i>	
Math 360B Introduction to Operations Research	3-4
Total	23-24
Writing Course Within Discipline:	
Math 300W Writing in Mathematics	3
Computer Science Requirements:	
CSIS 110B Introduction to Programming (C++)	4
CSIS 230 Object-Oriented Programming in C++	4
CSIS 310 Data Structures	4
Two additional CSIS courses numbered over 300	8
Total	20
Other Departmental Requirements:	
Math 496 or Math 497 or CSIS 496 Senior Seminar <i>or</i>	
CSIS 499 Independent Study	3
Electives	37-38
TOTAL REQUIRED FOR GRADUATION	128
The Middle Secondary School Math Teaching Option:	
	Credits
General Studies	41
Mathematics Requirements:	
Math 201B Elementary Statistics	4
Math 215B Math for The Elementary School Teacher	3
Math 221B Calculus I	5
Math 222 Calculus II	4
Math 301B Foundations for Advanced Mathematics	3
Math 310 Methods of Teaching Mathematics in the Secondary School	3
Math 385 Algebraic Structures I	3
Math 315B Real Numbers and Geometry	3
Math 325B History of Mathematics	3
One of the following:	
Math 305B Discrete Mathematical Structures	
Math 311B Matrices and Linear Algebra	
Math 316B Topics in Number Theory	
Math 342 Modern College Geometry	
Math 386 Algebraic Structures II	3-4
Math 496 Mathematics Senior Seminar <i>or</i>	
Math 497 Mathematics Education Senior Seminar	3
Total	37-38

Writing Course Within Discipline:	
Math 300W Writing in Mathematics	3
Auxiliary Requirements: (should be taken first year at Fort Lewis)	
CSIS 106B Introduction to Programming in Visual Basic	4
or	
CSIS 150B (Engr 104B) Introduction to Programming (FORTRAN)	3
or	
CSIS 110B Introduction to Programming (C++)	4
Total	3-4
Courses for Secondary School Teacher Licensing	32
Courses for Middle School Endorsement	12
TOTAL REQUIRED FOR GRADUATION	128-131

The Probability and Statistics Option:

	Credits
General Studies	41
Specific Mathematics & Statistics and Probability Requirements:	
Math 201B Elementary Statistics	4
Math 221B, 222, 223 Calculus I, II, III	13
Math 327 Differential Equations	
or	
Math 311B Linear Algebra	3
Math 340B Regression Analysis	4
Math 350B Design and Analysis of Experiments	3
Math 360B Introduction to Operations Research	4
Math 401, 402 Probability & Statistics I & II	6
Math 496 Mathematics Senior Seminar	
or	
Math 497 Mathematics Education Senior Seminar	3
Total	40

Writing Course Within Discipline:	
Math 300W Writing in Mathematics	3

Auxiliary Requirement:
(should be taken first year at Fort Lewis)

CSIS 106B Introduction to Programming in Visual Basic	4
or	
CSIS 150B Introduction to Programming (FORTRAN)	3
or	
CSIS 110B Introduction to Programming (C++)	4
Total	3-4
Electives	40-41
TOTAL REQUIRED FOR GRADUATION	128

Actuarial Science Preparation

For students interested in careers as actuaries, Fort Lewis offers the appropriate courses for study.

The Society of Actuaries lists five basic courses. Their Fort Lewis equivalents are listed here:

- S.A. 100 (Calculus and Linear Algebra) - FLC
Math 221B, 222, 223 (Calculus I, II, III)
Math 311B (Matrices and Linear Algebra)
- S.A. 110 (Probability and Statistics) - FLC Math
201B (Elementary Statistics)
Math 401-402 (Probability and Statistics I & II)
- S.A. 120 (Applied Statistical Methods) - FLC
Math 340B Regression Analysis
- S.A. 130 (Operations Research) - FLC Math 360B
(Operations Research)
- S.A. 135 (Numerical Methods) - FLC Math 320
(Numerical Analysis)

Beyond the Mathematics, it is helpful to take liberal arts courses which emphasize communication skills, both written and oral, and business courses that provide background in finance, accounting, economics and insurance. It is also important for students in college to take advantage of the educational opportunities available to them and not focus exclusively on a curriculum oriented to a particular career. For more information about being an Actuary, see the chair in the Department of Mathematics.

REQUIREMENTS FOR MINORS IN MATHEMATICS AND PROBABILITY AND STATISTICS:

	Credits
Mathematics:	
Calculus (Math 221B, 222)	9
Three additional mathematics courses at upper- division level. One course must emphasize the concept of proof (e.g., Math 301B, 305B, or 316B)	9
Total	18

Probability and Statistics:

Math 201B Elementary Statistics	4
CSIS 106B Introduction to Programming in Visual Basic	4

A minimum of 12 credits in upper-division statistics courses such as Math 340B, 350B, 360B and 401-402 or BA 353. BA 253B may be substituted for Math 201B. CSIS 150B or CSIS 110B may be substituted for CSIS 106B. Upper-division courses may be substituted for lower-division requirements.

Total	20
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Modern Languages

Courses are listed alphabetically according to language in the course listings section of this catalog.

Professors Reinaldo M. Alcazar, Lourdes M. Carrasco, James Fitzgerald (jointly with /Human Services)
Deborah A. MacKeefe and Ingrid W. Ryan;
Associate Professor Nicole M. Mosher;
Visiting Instructor of Modern Language

The Department of Modern Languages offers work in French, German, Japanese, Latin, Navajo and Spanish as an important element of a well-rounded liberal arts education (see Course Listings). Occasionally other modern languages are taught under Special Topics. A Bachelor of Arts degree with a major in Spanish is offered. (See statement under SPANISH below.)

GUIDELINES FOR GRANTING CREDIT FOR FOREIGN LANGUAGE COMPETENCE

Fort Lewis College has two methods of granting credit for foreign language competence. One method is based upon the student's satisfactory transfer of college credits from a fully accredited college or university. The second method is by appropriate examinations. A student may pass subject examinations of the College Level Examination Program (CLEP) or Advanced Placement (AP). 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.

Minors are available in Spanish, French and German for students majoring in other disciplines. A minor in French or German requires at least 23 credits or equivalent knowledge in the appropriate language, nine credits of which must be 300- or 400-level courses. A minor in Spanish requires 24 credits, nine credits of which must be 300- or 400-level courses.

REQUIREMENTS FOR A MINOR IN SPANISH, FRENCH AND GERMAN:

	Credits
Spanish:	
ML 215A1 Intermediate Spanish I.....	4
ML 216A1 Intermediate Spanish II	4
ML 319A1 Advanced Spanish Conversation and Composition I.....	4
ML 320W Advanced Spanish Conversation and Composition II	4
ML 321A1E and ML 322A1E Survey of Hispanic American Literature I & II or	
ML 325A1 and ML 326A1 Survey of Spanish Literature I & II	6
ML 345A1 Hispanic Culture and Civilization I: Spain	3
ML 346A1E Hispanic Culture and Civilization II: Latin America	3
Total	28

French:

ML 147 Elementary French I	4
ML 148A1 Elementary French II	4
ML 247A1 Intermediate French I	3
ML 248A1 Intermediate French II	3
300- or 400-level courses	9
Total	23

German:

ML 123 Elementary German I.....	4
ML 124A1 Elementary German II	4
ML 223A1 Intermediate German I	3
ML 224A1 Intermediate German II	3
300- or 400-level courses	9
Total	23

When planning a minor in Spanish, French or German, students should consult with an appropriate faculty member in the Department of Modern Languages.

Students can also pursue a student-constructed major in French or German under the supervision of the appropriate faculty member (See page .).

Spanish

(Course listings for Spanish begin on Page 165.)

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 on the appropriate level.

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.

Students desiring to pursue a major in Southwest Studies requiring courses in Spanish should consult with the Chair of the Department of Southwest Studies, and the chair of the Department of Modern Languages.

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

	Credits
General Studies	41
Specific Departmental Requirements:	
ML 215A1 and ML 216A1 Intermediate Spanish I and II	8
ML 321A1E and ML 322A1E Survey of Hispanic- American Literature I and II	6
ML 325A1 and 326A1 Survey of Spanish Literature I and II	6
ML 319A1 Advanced Spanish Conversation and Composition I	4
ML 320W Advanced Spanish Conversation and Composition II	4
ML 345A1 Hispanic Culture and Civilization I: Spain	3

ML 346A1E Hispanic Culture and Civilization II: Latin America	3
ML 496 Senior Seminar in Spanish	3

Writing Course within Discipline:
Included in Specific Departmental Requirements above.

Departmental Electives: 3 credits to be taken from any 300- or 400-level Spanish courses	3
Total	40

Electives

TOTAL REQUIRED FOR GRADUATION 128

For French, German, Japanese, Latin and Navajo, see course listings.

Music

Course listings for Music begin on Page 153.

Professors Linda S. Mack, Rochelle G. Mann and Richard G. Strawn;
Associate Professor John C. Pennington;
Assistant Professors James L. Klages, Ying Ying Liu,
Katherine D. Jetter Tischhauser and Mark Walters

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.

Liberal Arts - General Music Studies

Designed for students interested in a liberal arts education with an emphasis in music.

Liberal Arts - Performance Concentration

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.

Liberal Arts - Music Education Concentration

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 Requirement:

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 for Prior Work and Credit by Examination, Page 19.) 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 also satisfies the piano proficiency requirement.

Music Literature Requirement:

Mu 100 is required each trimester of residency. Attendance at scheduled recitals and concerts and at regularly scheduled listening labs are requisite.

Major Ensemble Requirement:

At least 6 credits from the following: Mu 105A2, 110A2, 117A2, 305A2, 310A2, 317A2, are required with a maximum of 12 credits allowable toward graduation in any combination of these courses. Students will be assigned to the appropriate major ensemble by the applied music instructor(s). At least one of the above is required each trimester of residency with the exception contained within the following:

Music Education Concentration - A Major Ensemble is not required during the trimester of student teaching. Mu 110A2, 117A2, 310A2 or 317A2 is required for the instrumental specialization, and Mu 105A2 or 305A2 for the choral specialization.

Applied Music Requirement:

One applied course is required each trimester of residency except during the trimester 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 trimester of residency. A maximum of 16 credits in a single applied music area is allowable toward graduation.

Foreign Language Requirement:

Two trimesters 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 trimesters of German or French, including at least one trimester of each language.

Common Requirements:

	Credits
Mu 128A2 Theory and Musicianship I	5
Mu 129A2 Theory and Musicianship II	5
Mu 228 Theory and Musicianship III	5
Mu 229 Theory and Musicianship IV	5
Mu 331A2 History of Music I	3
Mu 332A1 History of Music II	3
Mu 349 Conducting I	3
Mu 350 Conducting II	3
Mu 423 Orchestration	2
Mu 496 Senior Seminar	
OT	
Mu 499 Independent Study	2
Total	36

Liberal Arts - General Music Studies:

	Credits
General Studies	41
Common Requirements	36
Special Departmental Requirements:	
Music Literature	3-4
Major Ensemble	6-8
Applied Music	8
Total	17

Writing Course Within Discipline:

See Department Chair for approved course 3-4

Additional Requirements:

Students must present a half recital of at least thirty (30) minutes duration during the junior or senior year.

Electives 30-31

TOTAL REQUIRED FOR GRADUATION 128

Liberal Arts - Performance Concentration:

	Credits
General Studies	41
Common Requirements	36
Special Departmental Requirements:	
Music Literature	3-4
Major Ensemble	6-8
Applied Music	12-16
Total	21

Writing Course Within Discipline:

See Department Chair for approved course 3-4

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.

Electives 26-27

TOTAL REQUIRED FOR GRADUATION 128

Liberal Arts - Music Education Concentration:

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.

	Credits
General Studies	41
Common Requirements	36
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
Total	14

Special Departmental Requirements:

Music Literature	3-4
Major Ensemble	6-8
Applied Music	7
Total	16

Writing Course Within Discipline:
See Department Chair for approved course 3-4

Additional Requirements:
Students must complete all courses required for teacher certification. Consult the Teacher Education Department for specific requirements.

Students must present a half recital of at least 30 minutes duration during the junior or senior year.

MINIMUM REQUIRED FOR GRADUATION 128

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 which includes:
 Mu 128A2 Theory and Musicianship I 5
 Mu 129A2 Theory and Musicianship II 5
 Mu 331A2 Music History I
 or
 Mu 332A2 Music History II 3
3. Three years of Applied Music, Mu 109, 209 and 309.

Interested students should consult with their applied professor or the department chair.

Philosophy

Course listings for Philosophy begin on Page 156.

Professor William Coe;
Associate Professors Reyes R. Garcia and Dugald L. Owen
Assistant Professor Sean E. Cridland

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 a 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 mankind'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 Studies (not satisfied below)	Credits 35-37
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Specific Departmental Requirements:

Phil 274C Early Foundations of Philosophy	4
Phil 251C Moral Philosophy	4
Phil 271B Logic	4
Phil 375C Modern Foundations of Philosophy	4
Phil 377C Contemporary European Philosophy	4
Phil 496 Seminar in Philosophy	4
Total	24

Writing Course Within Discipline:
Phil 305W Writing Philosophy 4

Other Departmental Requirements:

A minimum of 12 additional credits in Philosophy including at least 8 credits in courses numbered 300 or higher. PS 486D Ancient Political Thought and PS 487D Modern Political Thought may be credited toward this requirement 12

Auxiliary Requirements from Other Departments:
Two trimesters of one modern language 6-8
Total 18-20

Electives 43-47

TOTAL REQUIRED FOR GRADUATION 128

REQUIREMENTS FOR A MINOR IN PHILOSOPHY

Phil 141C Introduction to Philosophy	
or	
Phil 274C Early Foundations of Philosophy	4
Phil 251C Moral Philosophy	4

Phil 375C Modern Foundations of Philosophy	4
Phil 271B Logic	4
At least one other philosophy course numbered 300 or above	4

Total 20

Physical Education

Course listings for Physical Education begin on Page 157.

Physical Science

Course listings for Physical Science begin on Page 157.

Physics

Course listings for Physics begin on Page 158.

Professors James M. Costello and Tom D. Norton;
Associate Professors Gerald Crawford and Martha S. Iverson;
Assistant Professor Ashley Shultz

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 becomes 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.



A geology student peers through a microscope at a rock specimen.

Photo by Marwa Mohamed

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

REQUIREMENTS FOR A BACHELOR OF SCIENCE DEGREE IN PHYSICS:

	Credits
General Studies (not satisfied below)	31

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 217B, 218B, 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 400 Science and Human Values	2
Phys 420 Introductory Quantum Mechanics I	3
Phys 496 Senior Seminar	
or	
Phys 499 Independent Study	2
Total	29

Writing Course Within Discipline: <i>PHYS 499</i> Writing Techniques in Physics I & II	4
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Additional Departmental Requirements:

Additional physics courses numbered above 300 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
Total	6

Auxiliary Requirements from Other Departments:	
Chem 150B, 151 Fundamentals of Chemistry	11
Math 221B, 222, 223 Calculus I, II, III	13
Math 327 Differential Equations	3
Engr 104B Computer Programming for Scientists and Engineers	3
Engr 201 Electric Networks	4
Engr 202 Electric Networks II*	4
Math 311B Matrices and Linear Algebra or	
Math 320 Numerical Analysis or	
Math 401 Probability and Statistics	3
Total	41

Electives	17
TOTAL REQUIRED FOR GRADUATION	128
*Can substitute Phys 301.	
REQUIREMENTS FOR A MINOR IN PHYSICS:	
Phys 217B, 218B (with departmental approval Phys 201B, 202B)	10
Phys 320 Modern Physics	3
Phys 380 or 381 Advanced Physics Laboratory I & II	1
Two additional Physics courses from the following:	
Phys 301, 340, 354, 361, 370, 420, 421	6-7
Total	20-22

Political Science

Course listings for Political Science begin on Page 159.

Professors Edward L. Angus and Byron Dare;
Associate Professor Kenyon D. Bunch;
Assistant Professors Sean E. Cridland and Jan E. Sallinger-McBride

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 available also to the student who is majoring in another area but who wants to learn something about politics and government.

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

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:

	Credits
General Studies (not satisfied below)	29-35
Specific Departmental Requirements:	
PS 101D Introduction to Political Science	3
PS 110D U.S. National Government	3
PS 250W Introduction to Political Analysis	4
PS 386D Ancient Political Thought	3
PS 387D Modern Political Thought	3
PS 496 Senior Seminar or	
PS 499 Independent Study	3

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

Other Departmental Requirements:

22 additional hours in Political Science with not more than 8 credits in internships	22
Total	41

Auxiliary Requirements from Other Departments:

Hist 280C Survey of United States History, 1600-1865, and
Hist 281C Survey of United States History, 1865-Present
(General Studies, Group C)

One of the following:

BA 253B Business Statistics, Math 201B
Elementary Statistics,
Psych 241B Basic Statistics for Psychologists
and
Engl 363 Advanced Composition
or
two courses in one modern language

6-8

Two courses in any one of the following areas:

Anthropology, Economics, Philosophy,
Psychology or Sociology (General
Studies, Group C or D)

6

Total	18-20
Electives	32-40
TOTAL REQUIRED FOR GRADUATION	128

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE:

- At least 18 credits in political science, exclusive of internship hours.
- At least 9 of those credits must be in upper-division courses.

Religious Studies Minor

Director, James K. Ash

Professor Emeritus Leonard G. Bird

Professors Mary Jean Moseley, Paul N. Pavich

Associate Professors James K. Ash, Reyes R. García, Neil McHugh, Richard M. Wheelock

Assistant Professors Robert R. Bunting, Sean E. Cridland, Kalin Grigg and David L. Kozak

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 applications 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.

Possible course choices for the minor:

Anthropology

Anth 215CE Magic and Religion 3

Credits

English

Engl 125A1 The Bible as Literature 3

Engl 221A1 Classical Literature 3

Engl 380E Native American Literature 3

History

Hist 305CE Mesopotamian Myth and Religion 3

Hist 306C Ancient Women's Religion 4

Hist 308C The Rise of Christianity 4

Hist 340CE Islam in History 4

Hist 391C U.S. Religious History 3

Hist 446CE Ancient Israel and Judah 4

Philosophy

Phil 261C Philosophy of Religion 4

Phil 320E Indigenous Worldviews 4

Phil 321C World Religions 4

Political Science

PS 300D Religion and Politics 3

Sociology

Soc 340D Religion and Social Life 4

Southwest Studies

SW 322CE American Indian Philosophies 3

Also appropriate are Special Topics courses 190/390's and 191/391's with a focus on religious studies in any of the disciplines. These courses must be approved by the director.

Sociology/Human Services

Course listings for Sociology/Human Services begin on Page 162.

Professors Samuel A. Burns, James Fitzgerald (jointly with Modern Language), Betty J. Leyerle;

Associate Professor Dennis W. Lum;

Assistant Professors Janine M. Fitzgerald, Kalin L. Grigg and Mark C. Seis

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 case work, 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 and Human Services curriculum is organized to facilitate the integration of theory (reflection) and practice (action). While participation in the human service and practicum courses form the nucleus of the praxis experience, the Block Internship, Latin American, Community Services and Service Learning programs all provide further opportunities for engaging field experience.

A minor in sociology and 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.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE
WITH A MAJOR IN SOCIOLOGY/HUMAN SERVICES:**

	Credits
General Studies	39
Specific Departmental Requirements:	
Soc 100D Social Issues	4
Soc 200 Social Change and Human Services	4
Soc 210W Social Inquiry and Research Methods	4
Soc 300D Theories of Social and Personal Life	4
Soc 320 Community Service Practicum	4
Soc 421 Contemporary Social Analysis in the Southwest	4
Soc 496 Senior Seminar	4
Total	28

Writing Course Within Discipline:
Included in Departmental Requirements above.

Other Departmental Requirements:	
A minimum of 12 additional credits in Sociology/Human Services	12
Total	12
Electives	49
TOTAL REQUIRED FOR GRADUATION	128

**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.

Southwest Studies

Course listings for Southwest Studies begin on Page 164.

Professors Richard N. Ellis, Mary Jean Moseley and Duane A. Smith;
Associate Professors Adrian H. Bustamante, J. Todd Ellison and Richard M. Wheelock;

The Southwest Studies major is designed to be a truly interdisciplinary program that introduces students to a variety of academic disciplines. The interdisciplinary nature of the program permits it to be tailored to the needs of individual students. Students are required to take approved coursework in a minimum of four different departments. Coursework applicable to the Southwest major and minor must be approved by the department chair.

A major in Southwest Studies will consist of 45 hours of coursework with at least 27 credit hours at the 300- and 400-levels. Courses on the Southwest must be taken in at least four different subject areas such as anthropology, art, history, language, literature, sociology, economics, geology and Southwest Studies. At least 18 credit hours must have a Southwest prefix. Students will also take a three-hour senior seminar in Southwest Studies.

All majors are required to take at least one year of Spanish or one year of a southwestern Indian language.

A major in Southwest Studies prepares students for careers in state and local governments, museum work, and other occupations as well as admission to graduate school. Students majoring in Southwest Studies may be certified to teach in the broad area of social studies at the secondary level. To obtain requirements for teacher certification, please contact the Department of Teacher Education.

A minor in Southwest Studies will consist of 18 hours of coursework on the Southwest in at least three subject areas. At least nine hours will be upper division.

**REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE
WITH A MAJOR IN SOUTHWEST STUDIES:**

	Credits
General Studies (not satisfied below)	23
Southwest Studies Requirements:	
Southwest courses must be taken in at least four different subject areas: anthropology, art, history, language, literature, sociology, economics, geology and Southwest Studies.	
Approved Southwest courses are listed below. At least 27 credit hours must be at the 300- and 400-level. At least 18 credit hours must have a Southwest prefix. Southwest 496 is required.	
Southwest Studies Requirements	45
Writing Course Within Discipline:	
See the Department Chair for approved course	3-4
Language Requirement:	
At least one year of Spanish or one year of a Southwest Indian language	6-8
Electives	48-51
TOTAL REQUIRED FOR GRADUATION	128

Approved Courses follow on next page.

Approved Courses for Southwest Studies

- Anth 220C Colorado Archaeology
 Anth 259 Field Training in Archaeology
 (if on Southwest topic)
 Anth 330C Archaeology of the Southwest
 (Prerequisite)
 Anth 350CE Ethnology of Mesoamerica
 Anth 360C Legal and Ethical Issues in Archaeology
 Anth 403 Advanced Archaeological Field Techniques
 (if on Southwest topic) (Prerequisite)
 Anth 430 Advanced Studies in Southwestern
 Archaeology
- Art 154A2/SW 154A2 Indian Arts and Crafts I
 Art 155A2/SW 155A2 Indian Arts and Crafts II
 Art 265A2/SW 265A2 Art History of the Southwest
 Art 365A2E Mesoamerican Art History
- Bio 471 Field Ecology
 (if on Southwest topic) (Prerequisite)
- Engl 280A1 Literature of the Southwest
 Engl 380E American Indian Literature
- Geol 150B Geology of the Southwest
- Hist 270CE Colonial Latin America
 Hist 271CE Latin America Since Independence
 Hist 320C Western American History
 Hist 322C Western American Mining/SW 482C Mining
 in the American West
 Hist 324C/SW 481C Colorado History
 Hist 373CE History of Mexico
- ML 215A1 & 216A1 Intermediate Spanish I & II
 (Prerequisite)
 ML 321A1E Survey of Hispanic American
 Literature I (Prerequisite)
 ML 322A1E Survey of Hispanic American
 Literature II
 ML 331A1E Chicano Literature (Prerequisite)
 ML 427A1E Hispanic American Novel
 and Poetry (Prerequisite)
 ML 429A1E Mexican Literature (Prerequisite)
- PS 400DE Native American Law and Politics
- Soc 279D Ethnicity, Gender and Class
 in the Southwest
 Soc 421 Contemporary Social Analysis
 in the Southwest
- SW 100 & 101A1 Navajo Language
 SW 115 Native American Newsletter
 SW 123CE American Indian History
 SW 125CE History of Hispanos in the Southwest
 SW 131C Southwest History and Culture
 (Students who previously completed SW 135E and
 SW 136, The Southwest I & II, cannot receive credit
 for SW 131C, Southwest History and Culture)
 SW 154A2/Art 154A2 Indian Arts and Crafts I
 SW 155A2/Art 155A2 Indian Arts and Crafts II
 SW 135E and SW 136C The Southwest I & II
 (Students who previously completed SW 131, Southwest
 History and Culture, cannot receive credit for SW 135E and
 SW 136C, The Southwest I & II.)
 SW 265A2/Art 265A2 Art History of the Southwest
 SW 280DE Native American in the Modern World
 SW 282CE The Hispano Culture of the Southwest
 SW 315 Native American Newswriting
 SW 317A1 History of American Indians in Film
 SW 322CE American Indian Philosophies
 SW 323CE Southwest Indian History
 SW 326C West and Southwest in Film and Fiction
 SW 327CE American Indians and the Mass Media
 SW 330C Cowboys, Cattlemen and Popular Culture
 SW 340 Archival Theory and Practice
 SW 341 Oral History: Theory and Practice
 SW 342 Interpretation of Cultural Resources
 SW 355C Development of United States Indian Policy
 SW 360A2E/Art 365/A2E Mesoamerican Art History
 SW 365C Hispanic Civilization
 SW 375 Hispanic-American Civilization
 SW 381A1 Chicano Literature
 SW 383C Southwest History to 1868
 SW 384C Southwest History, 1868 to Present
 SW 385E Contemporary Native American Novels
 SW 386E Native American Autobiography
 SW 402A1 or A2 Contemporary Art and
 Literature of the Southwest
 SW 481C/Hist 324C Colorado History
 SW 482C Mining in the American West/Hist 322C
 Western American Mining
 SW 493 Internship in Southwest Studies
 SW 496 Senior Seminar
 SW 499 Problems in Southwest Studies

Spanish

(See Modern Languages on Page 80. Course listings begin on Page 165.)

Theatre

Course listings for Theatre begin on Page 167.

Professor Dinah L. Leavitt;
Associate Professor Kathryn S. Moller; Assistant Professor Paul R. Rathbun

The Theatre major at Fort Lewis College 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.

All courses are suitable for majors and non-majors with an interest in the arts.

The academic program 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. Many of our productions are student generated through Fourth Wall Student Productions. Auditions for the theatre season are held at the beginning of each term. Student involvement in FLC theatre productions 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:

	Credits
General Studies (not satisfied below)	40-46
Departmental Requirements:	
Thea 135A2 Acting Techniques	4
Thea 126A2 Introduction to the Dance	4
Thea 230A2 Stage Design and Technology	4
Thea 330A2 Ancient and Classical Theatre	4
Thea 496 Theatre Seminar	4
Total	20
Writing Course Within Discipline:	
Thea 340W Modern Theatre	4
Theatre Studies Electives: Choose 3	
Thea 335A2 Styles in Acting	4
Thea 350A2 Contemporary Theatre	4
Thea 366 Dance Technique	2
Thea 369A2 Playwriting	4
Thea 435 Creating Performance: Directing	4
Total	10-12

Other Theatre Electives: Choose one:

Thea 190/390 Special Topics	4
Thea 222A2 Creative Dramatics	4
Thea 223A2 Children's Theatre	4
Thea 280A2 Interdisciplinary Studies	4
Thea 381A2 Special Topics in Dramatic Literature	4
Thea 401 Advanced Studies	4
Total	4

Other Departmental Requirements:

A total of six credits chosen from Theatre Ensemble and Performance Studies. At least two credits must be for performance, and at least two credits must be for technical theatre work.

Thea 300 Theatre Ensemble	2-4
Thea 400 Performance Studies	2-4
Total	6

Auxiliary Requirements:

Engl 432A1 Shakespeare	3
Total	3

Total Credits for Theatre Major 46-48

Other Electives 36-40

TOTAL REQUIRED FOR GRADUATION 128

REQUIREMENTS FOR A MINOR IN THEATRE:

Performance credits:

A total of six credits chosen from Thea 300 Theatre Ensemble, and Thea 400 Performance Studies.

Total

 Thea 330A2 Ancient and Classical Theatre

 or

 Thea 340W Modern Theatre

 and

 One of the following three courses:

 Thea 230A2 Stage Design and Technology

 Thea 280A2 Interdisciplinary Studies

 Thea 369A2 Playwriting

Total

Four credits from Theatre Electives

Total

Women's Studies

Course listings for Women's Studies on Page 168.

Professors Kathleen S. Fine-Dare, Doreen Hunter and Betty J. Leyerle;
Associate Professors James K. Ash, Alane S. Brown, Kathryn S. Moller and Carol L. Smith;
Assistant Professors Margarita Barceló, Janine M. Fitzgerald,
Jennifer A. Gehrman and Jan E. Sallinger-McBride;
Visiting Instructor Terra L. Anderson

Women's Studies takes a transdisciplinary 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 issues in conducting research in any discipline. Women's Studies is committed to an honest and critical discussion about the ways that the individual, society and culture intersect.

Students may select from a variety of courses in several disciplines to create a minor in Women's Studies. These courses deal substantively with women's issues or issues pertaining to the study of gender. Some courses are offered by the Women's Studies Program; the rest are offered by various departments. Fort Lewis College does not offer a major in Women's Studies.

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES:

1. At least 20 credits of coursework from the listing below, at least nine of which must be in upper-division courses.
2. These courses must represent at least three different disciplines (Including Women's Studies).
3. One course is required:
WS 101D Introduction to Women's Studies 4

Relevant Women's Studies courses offered at Fort Lewis College include:

Anthropology	
Anth 217C Cultural Images of Women and Men	4
Anth 355C Anthropology of Gender	4
Biology	
Bio 132B Human Sexuality	3
English	
Engl 175A1 Women's Literature	3

History	
Hist 306C Ancient Women's Religions	4
Hist 332C Women in American History	4
Hist 368C Medieval Women	4

Philosophy	
Phil 365C Philosophy and Feminism	3

Political Science	
PS 365DE Women and Development	3
(Same as WS 365DE)	

Sociology		
Soc 275D Families, Marriages and Other		
Sex Role Systems	4	
Soc 279D Ethnicity, Gender and Class		
in the Southwest	4	
Soc 280D Popular Culture and		
Mass Communication	4	
Soc 300D Theories of Social and Personal Life		4

Women's Studies	
WS 101D Introduction to Women's Studies	4
WS 201 Introduction to Feminist Theory	4
WS 280 Issues in Women's Health	4
WS 351D Women and Work	4
WS 365DE Women and Development	3
(Same as PS 365DE)	
WS 499 Independent Study in Women's Studies	1-4

Other relevant courses from a variety of disciplines may also be offered. See the Women's Studies Coordinator for information about current offerings that could be applied toward a minor in Women's Studies.

Students who plan to complete a minor in Women's Studies should consult with their advisor and a member of the Women's Studies faculty.

Writing Program

Carol L. Smith, Director

Professor Karen I. Spear

Associate Professors Beverly R. Chew and Faron L. Scott

Assistant Professors Katherine Wolfe Farnsley, Delilah G. Orr, Paul R. Rathbun, Mark C. Seis and Carol L. Smith

I think that the best writing classes are ones in which there is ... a lot going on, and the teacher becomes a kind of conductor, leading, prompting, guiding--but the work is being done by the students, and it involves all the communication modes. Students are talking; they're talking to the teacher, they're talking to each other, and all of that talk is in some way building from reading they've done or problems that have been posed or writing that they've produced themselves. And it's leading toward something else; it's leading toward another piece of reading or another writing task, always just beyond what they can readily do, helping them grow as writers.

--Mike Rose,

Associate Director of Writing Programs,
University of California, Los Angeles

The Writing Program represents Fort Lewis College's commitment to fostering advanced literacies in its students and to supporting inquiry on literacy from multidisciplinary perspectives. Although a high school education gives most students strong basic literacy skills, a college education prepares students to read and write in specialized ways, giving students entree to different worlds of advanced literacies. Two of the key tasks of Composition Studies, the discipline which informs the Writing Program, are to explore changing definitions of literacy and to use the insights from that inquiry to improve how we teach students the complex intellectual task we call "writing." The Writing Program offers writing courses, supports the specialized disciplinary writing courses ("W" courses) offered in each major field, and acts as a information clearinghouse on instruction in writing occurring campus-wide.

FIRST-YEAR WRITING REQUIREMENT

Comp 150: Reading and Writing in College is a four-credit course students enroll in after they have completed at least 12 credit hours of college work. Comp 150 introduces students to the purposes and practices of scholarship. Reading and writing scholarly texts is a central activity in a liberal arts education, and teaching students how to do this is the reason for the required first-year writing course at Fort Lewis College.

Comp 150 is a challenging course that asks students to read and write as they've never read and written before, but it is the appropriate writing course for the great majority of the first-year students. The course should be taken in conjunction with Lib 150: Information Literacy, a one-credit course in academic library research concepts and skills offered by the Library faculty.

To meet the needs of students who are ready to undertake an introduction to scholarly reading and writing but would benefit from a slower pace and more support, the Writing Program is experimenting with a "stretched out" version of Comp 150 in which the same curriculum is taught over two semesters. Students who enroll in Comp 190: Reading and Writing in College--Stretch Version" in the 1998-99 academic year will receive upon completion of the Fall semester two

credits of Composition credit (counts toward degree) and two credits of TRST 95: Learning Skills (does not count toward a degree). Students receive upon completion of the Winter semester two credits of Composition (counts toward degree and equals completion of Comp 150 requirement) and two credits of GS 190: Understanding Conceptual Frameworks (counts toward degree).

Students who believe their preparation for college reading and writing tasks is inadequate may choose to begin their writing coursework with TRST 91: Writing Process. This course, coordinated by the professional staff of the Learning Assistance Center, focuses on developing awareness of the rhetorical dimensions of writing. Although it provides three hours for scheduling and financial aid purposes, TRST 91 does not count toward graduation. However, for some students this course is the place to begin because it gives a foundation that students can subsequently build on to enhance their chances of success in Comp 150.

MAJOR FIELD WRITING REQUIREMENTS ("W" Courses)

In addition to completing Comp 150, each student is required to take the designated "W" course in his or her major field. Students should check the departmental requirements to identify the designated "W" course for a specific major. "W" courses introduce students to the specialized reading and writing practices in the major, and, in many cases, also cover significant conceptual content. Students may elect to take "W" courses out of their major fields of study, but they are recommended to contact the instructor first to discuss the way reading and writing instruction is incorporated in the course and to check the course descriptions for the prerequisites.

Here is a listing of the "W" courses offered by departments:

	Credits
Acc 330W Income Tax Accounting	4
Acc 436W Auditing - Theory and Practice	4
Anth 303W Anthropological Debates	4
Art 385W Contemporary Art Process, Theory, and Criticism: Reading, Writing and Making	4
Bio 380W Issues in Evolution and Biological Thought	4
BA 302W Human Resource Management	4
BA 309W International Management	3
BA 349W International Marketing	3
BA 401W Entrepreneurship and Small Business Management	3
BA 407W Management Consulting	4
BA 445W Marketing Strategy and Policy	4
BA 481W Cases in Financial Management	4
Chem 300W At the Forefront of Chemical Research	3

GS 361W Computers and Human Issues	4
Econ 472W Macroeconomic Theory	4
Engl 268W Reading Texts/Writing Texts	4
ES 301W Social and Psychological Issues in Sport	3
ES 302W The Holistic Journey to Health and Well-Being	3
Geol 380W Technical Writing in Geology	3
Hist 396W Philosophy and Methods	4
Math 300W Writing in Mathematics	3
Phil 305W Writing Philosophy	4
Phys 395W Writing Techniques in Physics I	2
Phys 495W Writing Techniques in Physics II	2
PS 250W Introduction to Political Analysis	4
Psych 296W Psychological Research Methods	4
Soc 210W Sociological Inquiry and Research Methods	4
Soc 279W Ethnicity, Gender, and Class in the Southwest	4
ML 320W Advanced Spanish Conversation and Composition II	4
Thea 340W The Roots of Modern Drama	4

WRITING PROGRAM ELECTIVES

The Writing Program offers a limited number of experimental elective courses under the Comp 190/390 numbers. For a current listing of elective offerings see the course schedule under "COMP."

WRITING ELECTIVES OFFERED BY DEPARTMENTS

A number of departments offer writing electives that students may wish to take to broaden their exposure to different writing practices. Students should consult the catalog description to determine prerequisites. Here is a listing of writing electives offered by departments:

Credits

BA 221 Writing in the Business World	2
BA 348 Public Relations	3
Engl 215 News Media Writing	3
Engl 315 Media Writing: Topics	3
Engl 363 Advanced Composition	4
Engl 464A1 Creative Writing	4
SW 115 Native American Newsletter	3
Thea 369A2 Playwriting	4

THE SCHOOL OF BUSINESS ADMINISTRATION

JOHN (Skip) E. CAVE, DEAN
ROY A. COOK, ASSISTANT DEAN

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 student's 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; 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, Beta Alpha Psi, the accounting professional fraternity, and Beta Gamma Sigma, the national honorary business fraternity, are active campus groups which 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, International Business, Management, Marketing, Operations Management, and Tourism and Resort Management.

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 28 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 course requirements (courses at the 300- and 400-level) of the School of Business Administration.

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 which will exceed 25 percent of their total program. This provision is in accordance with the accreditation standards of the American Assembly of Collegiate Schools of Business.

Trimester Abroad

The Trimester Abroad courses are taught by an FLC Business School faculty member in Europe during the winter trimester. The schedule provides for two five-week sessions with two courses offered during each session. Spring Break provides the opportunity to travel in Britain or the Continent, or take advantage of a Spring Break short course. The trimester 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 trimester begins at FLC 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. There are additional opportunities to earn credit through Independent Study and Non-Scheduled courses and the Spring Break course.

Costs of this program are kept low through the use of FLC faculty and the minimal cost of facilities in Europe. While the program costs for any given year are a function of airline fares, the exchange rate and room and board charges, in past years, it has cost students an additional \$1,600 including airfare, room and board for the trimester. This does not include the student's personal spending, nor costs of travel during Spring Break or at the conclusion of the course. 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 Assistant Dean of the School before taking any upper-division SOBA courses to design trimester schedules so they don't conflict with the JTA program of study.

Trimesters in France, Spain, Germany and Norway

The College has exchange agreements with École Supérieure de Commerce de La Rochelle (SupDeCo), École Supérieure de Commerce International du Pas-de-Calais (ESICIP), Escuela Superior de Marketing de Bilbao (ESM), Fachhochschule Regensburg (FSR), and the Norwegian School of Management (BI). With the exception of BI, in these programs, junior- and senior-level Business School students with second-year language fluency may attend one of these exchange partner schools for one or two semesters. The program at BI is in English. While the studies are completed at the partner school, credit and grades are awarded by FLC so there is no problem of transferability. FLC tuition and fees are charged so the only additional cost is that associated with travel to host institution and whatever additional living expenses which might be incurred.

La Rochelle is a port city on the Atlantic Coast, southwest of Paris. Not only is it France's seventh largest port, it is also a major summertime tourist destination because of its historic waterfront quarter, its sailing opportunities, and its proximity to Atlantic beaches. It is well connected to the rest of France and Europe by an efficient, high-speed rail network.

ESICIP is located near St. Omer, about 15 miles from the Calais-Dover ferry and about 1 ½ hours from Paris by TGV. ESCIP has strong ties to industry and an extensive internship program in which FLC students can participate.

Fachhochschule Regensburg lies 1 ½ hours north of Munich, the northern gateway to the German and Austrian Alps.

Bilbao, the home of ESM is one of Spain's important port and industrial cities. It is located on the north coast near the French border.

BI, a top business school in Europe, has its campus in Oslo.

Since enrollment in these programs (except for Norway) requires second-year language proficiency of the host country, interested students should be sure to begin language instruction by at least the sophomore year.

The "4 + 1" BA/MBA Programs

Fort Lewis College graduates with a Bachelor of Arts degree in Accounting, Business Administration or Economics, and who meet the entrance requirements of the respective institution, may earn an MBA (normally a two-year program) in one year. This opportunity is available from Colorado State University, University of Southern Colorado, and Northern Arizona University.

Accounting/Business/Economics/Marketing Minors

Requirements for minors in Accounting, Business Administration, Economics and Marketing are given at the end of the School of Business Administration section of this catalog.

School of Business Administration Faculty

Professors Leonard D. Atencio, John E. Cave, James P. Clay, Jeremy J. Coleman, Joseph C. Colgan, Roy A. Cook, Lawrence S. Corman, William B. Dodds, Robert Dolphin, Jr., J. Larry Goff, Vernon E. Lynch, Jr., Reed H. McKnight and Richard A. Podlesnik;
Associate Professors Robert P. Harrington, Dale E. Lehman, Iqbal A. Memon, Randall K. Serrett,
Carol L. Smith, Charles O. Tustin and Laura J. Yale;
Assistant Professors Wen Hai, Frederick H. Mull, Nancy A. Oppenheim and Bradley W. Wagner

THE CURRICULUM

The School of Business Administration offers Bachelor of Arts degree's in Accounting, Business Administration and Economics. The Business Administration degree offers options in Agricultural Business, Business Administration, Engineering Management, Finance, International Business, Management, Marketing, Operations Management, 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. These 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.

Minors in accounting, business administration, economics or marketing are available for students majoring in other disciplines. Requirements for minors are listed at the end of this section.

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

	Credits
General Studies	41
Accounting, Business Administration or Economics majors <u>may not</u> take Business or Economics courses to satisfy General Studies group A, B, C, D, or E requirements.	

Common Requirements:

Acc 225 Introduction to Financial Accounting	4
Acc 226 Introduction to Managerial Accounting	4
Econ 266D Principles of Economics	4
BA 221 Writing in the Business World	2
BA 253B Business Statistics	4
BA 260D Legal Environment of Business	3
BA 301D Management and Organizational Behavior	4
BA 340 Marketing	4
BA 353 Operations Management	4
BA 380 Financial Management	4
BA 496 Senior Seminar in Administrative Strategy	4

Quantitative Reasoning Requirement:

Complete one of the following quantitative courses: (These courses satisfy other requirements in the major or in General Distribution and need not add additional required hours.)

BA 446 Marketing Research	4
BA 485 Investments and Portfolio Management	4
Econ 361 Managerial Economics	4
Math 210B Calculus for Business and the Biological Sciences	4
Math 221B Calculus I	5
Math 350B Design and Analysis of Experiments	4
Math 360B Introduction to Operations Research	4

Auxiliary Requirement outside the School of Business Administration:

CSIS 420 Management Information Systems	4
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TOTAL COMMON REQUIREMENTS 49-50

Each candidate for graduation must complete a minimum of 128 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. A minimum of C- must be earned in 300- and 400-level Accounting, Business Administration or Economics courses to count towards 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.

Sufficient elective credits to bring the student's total credits to 128 (the minimum number required for graduation). 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 266D, Comp 150 and LIB 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. These students may not enroll in 300- or 400-level business courses until Comp 150, LIB 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.

Business Administration/Economics Majors Suggested Course Sequence**

First Year				Second Year			
TERM 1		TERM 2		TERM 3		TERM 4	
BA 101D*	4*	Econ 266D	4	Acc 225	4	Acc 226	4
Electives (General Studies)	12	COMP 150	4	BA 260D	3	BA 253B	4
PE Activity	1	LIB 150	1	BA 221	2	Electives (General Studies)	8
		Electives (General Studies)	6	Electives (General Studies)	7		
		PE Activity	1				
	17		16		16		16
Third Year				Fourth Year			
TERM 5		TERM 6		TERM 7		TERM 8	
BA 301D	4	BA 380	4	CSIS 420	4	BA 496	4
Q/R Course	4	BA 340	4	BA Electives	8	BA Elective	3
General Elective	4	BA 353	4	Electives (General Studies)	4	Electives	8
Electives (General Studies)	4	BA Electives	4				
	16		16		16		15

*BA 101D 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.

**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.

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

Course listings for Accounting begin on Page 120.

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 income tax preparation, general accounting, cost accounting, budgeting and management advisory services.

The accounting program at Fort Lewis College is approved by the State Board of Accountancy of Colorado as preparation for the Certified Public Accountant Examination and for those receiving CPA certificates.

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration and Auxiliary Requirements outside of the School of Business Administration, a student studying accounting must complete the following requirements:*

Acc 323 Intermediate Accounting I	4
Acc 324 Intermediate Accounting II	4
Acc 327 Cost/Managerial Accounting	4
Acc 330W Income Tax Accounting***	4
Acc 436W Auditing - Theory and Practice***	4
Accounting Elective**	3-4
Total	23-24*

*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.

**Courses containing substantial amounts of review material (i.e., CPA Review) may not be used as the Accounting Elective.

***Completion of all these courses also fulfills the Group W requirement for accounting majors.

Accounting Majors Suggested Course Sequence*

First Year				Second Year			
TERM 1		TERM 2		TERM 3		TERM 4	
Econ 266D	4	COMP 150	4	BA 260D	3	BA 253B	4
		LIB 150	1	Acc 225	4	Acc 226	4
		Math 210B	4			BA 221	2
		Electives	6			Electives	6
Electives	12	(General Studies)		Electives	9	(General Studies)	6
(General Studies)		PE Activity	1	(General Studies)			
	16		16		16		16
Third Year				Fourth Year			
TERM 5		TERM 6		TERM 7		TERM 8	
Acc 323	4	Acc 324	4	Acc 436W	4	Electives*	15
Acc 327	4	Acc 330W	4	Acc Elective*	4		
BA 340	4	BA 353	4	CSIS 420	4	PE Activity	1
BA 301D	4	BA 380	4	BA 496	4		
	16		16		16		16

*It is critical that students consult an accounting advisor when preparing course schedules.

Agricultural Business

Course listings for Business Administration begin on Page 127.

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.

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration and the Auxiliary Requirements outside the School of Business Administration, a student studying agricultural business must complete the following requirements:

Required:

Ag 101B Introductory Animal Science	4
Ag 102B Principles of Crop Production	4
Ag 346 Agricultural Marketing	3
Ag 350 Agricultural Law	3
Ag 385W Case Studies in Agriculture/ Resource Management**	4

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 300D Agricultural Issues in Society	3
Ag 301 Range Management	4
Ag 325 Beef Science	3
Ag 390 Special Topics	3

Economics/Business Administration:

Econ 330 Production Economics and Agribusiness	4
Econ 361 Managerial Economics	4
Econ 390 Special Topics	4
BA 387 Real Estate	4
BA 401W Entrepreneurship and Small Business Management **	3
BA 446 Marketing Research	4
Total	26*

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

**Completion of one of these courses fulfills the Group W requirement for students in the agricultural business option.

Business Administration

Course listings for Business Administration begin on Page 127.

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 in a professional career or into graduate school.

In addition to the College's General Requirements and the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside of the School of Business Administration, a student studying business administration must complete the following requirements:

One 300- or 400-level Economics course** 4

A minimum of 15 credits of business administration courses at the 300- or 400-level, with at least one course from each group.*



Students take advantage of the light pouring through the windows of the John F. Reed Library on campus.

Photo by Marwa Mohamed

Group A:

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 349W Global Marketing	4
BA 390 Special Topics in Marketing	3
BA 437 Internship in Business-Marketing	3
BA 445W Marketing Strategy and Policy	4
BA 446 Marketing Research	4

Group B: MANAGEMENT

BA 302W Human Resource Management	4
BA 308 Office Management	3
BA 309W International Management	3
BA 311 Business Law I	3
BA 312 Business Law II	3
BA 313C Ethical Issues in Business	3
BA 315 International Law	3
BA 330 Tourism and Resort Management	4
BA 357 Studies in Operations Management	4
BA 360B Introduction to Operations Research	4
BA 370 Topics in International Business	3
BA 390 Special Topics in Management	1-4
BA 401W Entrepreneurship and Small Business Management	3
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
BA 481W Cases in Financial Management	4
Econ 375 Industrial Organization	4

Group C: FINANCE

BA 382/Econ 382 Financial Institutions	4
BA 386 Insurance	4
BA 387 Real Estate	4
BA 389 International Finance	4
BA 481W Cases in Financial Management	4
BA 485 Investments and Portfolio Management	4
BA 390 Finance Related Courses	3
BA 437 Internship in Business - Finance Related	3
Econ 369D Public Finance	4
Total Groups A, B and C	15*

*The 15 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

**Completion of Econ 472W, BA 302W, BA 401W or BA 407W fulfills the Group W requirement for students in the business administration option.

Economics

Course listings for Economics begin on Page 134.

The Economics degree offers options in Business Economics and Economics. The Business Economics option is designed to provide students with an understanding of the 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.

Students majoring in business economics may be certified to teach in the broad area of social studies at the secondary level. To obtain requirements for teacher certification, students need to contact the Department of Teacher Education.

Business Economics Option:

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside of the School of Business Administration, a student majoring in business economics must complete the following departmental requirements:*

Specific Major Requirements:

Econ 462 Microeconomic Theory	4
Econ 472W Macroeconomic Theory**	4
Total	8

Other Major Requirements:

Any three of the following courses:

Econ 310C Economic History of the United States	4
Econ 330 Economics of Agribusiness	4
Econ 335D Environmental Economics	4
Econ 361 Managerial Economics	4
Econ 369D Public Finance	4
Econ 371D International Economics	4
Econ 375D Industrial Organization	4
Econ 381D Economics of the Health Care Industry	4
BA 382/Econ 382 Financial Institutions	4
Econ 383D Economics of the Mass Media	4
Econ 390/391 Special Topics in Economics	4
Econ 407C Evolution of Economic Thought	4
Econ 410D Economics, A Radical Perspective	4
Total	12

*Departmental requirement courses 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.

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 the Business Administration Core. Students majoring in Economics will have the flexibility to pursue minors in other areas as well as preparing for teaching certification. The Economics option will 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.

Economics majors may be certified to teach in the broad area of social studies at the secondary level. To obtain the requirements for certification, students need to contact the Department of Teacher Education.

Courses used to fulfill the Business Economics option cannot be used to fulfill the Economics option nor can courses used to fulfill the Economics option be used to fulfill the Business Economics option.

Departmental Requirements:

Econ 266D Principles of Economics	4
Econ 361 Managerial Economics	4
Econ 462 Microeconomic Theory	4
Econ 472W Macroeconomic Theory	4
BA 499 Independent Study	2
Total	18

Any three of the following courses:

Econ 310C Economic History of the United States	4
Econ 330 Economics of Agribusiness	4
Econ 335D Environmental Economics	4
Econ 369D Public Finance	4
Econ 371D International Economics	4
Econ 375D Industrial Organization	4
Econ 381D Economics of Health Care Industry	4
Econ 382/BA 382 Financial Institutions	4
Econ 383D Economics of the Mass Media	4
Econ 390/391 Special Topics in Economics	4
As approved by the Department	
Econ 407C Evolution of Economic Thought	4
Econ 410D Economics, A Radical Perspective	4
Total	12

Other Requirements:

BA 253B Business Statistics	4
Math 221B Calculus I	5
BA 221 Writing in the Business World	2
Total	11
Total	41

Engineering Management

Course listings for Business Administration begin on Page 127.

Course listings for Engineering begin on Page 139.

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.

	Credits
General Studies (not satisfied below)	25
Departmental Requirements:	
Engr 103 Computer-Aided Drafting	3
Engr 104B Computer Programming for Scientists & Engineers	3
Engr 201 Electric Networks I	4
Engr 202 Electric Networks II or	
Engr 317 Mechanics of Materials	4-3
Engr 217 Statics	3
Engr 221 Dynamics	3
BA 253B Business Statistics	4
BA 260D Legal Environment of Business	3
BA 301D Management and Organizational Behavior	4
BA 302W Human Resource Management**	4
BA 340 Market Management Principles	4
BA 353 Operations Management	4

BA 380 Financial Management	4
BA 437 Internship in Business	3
BA 496 Senior Seminar in Administrative Strategy	4
One upper-division Business Course	3-4*
Total	57-58

Auxiliary Requirements From Other Departments:

Math 221B Calculus I	5
Math 222 Calculus II	4
Chem 150B Fundamentals of Chemistry	5.5
CSIS 420 Management Information Systems	4
Phys 217B Physics for Science and Engineering I	5
Phys 218B Physics for Science and Engineering II	5
Acc 225 Introduction to Financial Accounting	4
Acc 226 Introduction to Managerial Accounting	4
Econ 266D Principles of Economics	4
Total	40.5
Electives	9
TOTAL REQUIRED FOR GRADUATION	131.5-132.5

*The upper-division business course used to satisfy an option in Engineering Management may not be used to satisfy any other major, minor or option.

**Completion of this course fulfills the Group W requirement for students in the engineering management option.

Finance

Course listings for Business Administration begin on Page 127.

The 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.

In addition to the College's General Requirements and the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside of the School of Business Administration, a student studying finance must complete the following requirements:

One Upper-Division Economics course	4
Required:	
BA 481W Cases in Financial Management***	4
BA 485 Investments and Portfolio Management	4
Plus a minimum of seven (7) credits from the following, with no more than one course from the Economics area:	
BA 382 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 437 Internship in Business - Finance Related	3
Econ 369D Public Finance**	4
Econ 371D International Economics**	4
Econ 472W Macroeconomic Theory	4
Total	15-16*

*The 15 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.

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

***Completion of this course fulfills the Group W requirement for students in the finance option.

International Business

Course listings for Business Administration begin on Page 127.

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. In addition to the College's General Requirements not satisfied below and the Common Requirements of the School of Business Administration, a student studying international business must complete the following requirements:

	Credits
General Studies (not satisfied below)	20-22
Business Administration Requirements	39
Quantitative Reasoning Requirements	3-5
Auxiliary Requirements	
CSIS 420 Management Information Systems	4
Total	4
I.	
a. Required:	
BA 271D Principles of International Business	2
Plus two of the following:	
BA 309W International Management***	3
BA 349W International Marketing***	3
BA 389 International Finance	4
b. Two (2) additional courses from the following electives:	
BA 315 International Business Law	3
BA 370 Topics in International Business	3
BA 390 Special Topics	
(with International emphasis)	1-4
BA 499 Independent Study: Semester Abroad	3
Econ 371D International Economics	4
Econ 390 Special Topics	
(with International emphasis)	1-4
Econ 410D Economics, A Radical Perspective	4
ML 309 Business French	3
Total	15-16*
II. Auxiliary Electives:	
Two (2) courses from Group I:	
Group I:	
Anth 210C Introduction to Cultural and	
Social Anthropology	4
Anth 350CE Ethnology of Mesoamerica	4

Anth 351CE Ethnology of Andean	
South America	4
Anth 353CE Ethnology of India	4
Anth 371CE Ethnology of Lowland South America	4
Engl 173E 20th Century Asian and	
African Literature	3
Engl 420E World Literary Traditions: Topics	3
Geog 271D World Geography	3
Hist 140CE Survey of African History I	3
Hist 141CE Survey of African History II	3
Hist 170CE Survey of Asian Civilization: Japan	3
Hist 171CE Survey of Asian Civilization: China	3
Hist 270CE Colonial Latin America	3
Hist 271CE Latin America Since Independence	3
Hist 341CE Contemporary Africa	4
Hist 342CE West Africa	4
Hist 344CE Northeast Africa	4
Hist 346CE South Africa	4
Hist 348CE The African Diaspora	4
Hist 349CE Islam in History	4
Hist 361CE Russia in Revolution to 1924	4
Hist 362CE Soviet Union: Stalin to Gorbachev	4
Hist 363CE Collapse of the Soviet Union	3
Hist 364C Germany, Roman Times to 1919	4
Hist 365C Germany, 1919 to Present	4
Hist 366C Hitler and the Holocaust	3
Hist 367C Medieval England and Ireland	4
Hist 368C Medieval Women	4
Hist 369C The Black Death and	
the Later Middle Ages	4
Hist 371CE History of Central America	4
Hist 372CE United States -	
Latin American Relations	4
Hist 373CE History of Mexico	4
Hist 440CE Advanced Studies in African History	4
Hist 450CE Advanced Studies in East Asian History	4
Hist 465C Advanced Studies in European History	4
Hist 475CE Advanced Studies in	
Latin American History	4
Mu 337A2E Survey of Non-Western Music	3
ML 326A1 Survey of Spanish Literature II	3
ML 345A1 Hispanic Culture and	
Civilization I: Spain	3
ML 346A1E Hispanic Culture and	
Civilization II: Latin America	3
Phil 320E Indigenous Worldviews	4
Phil 321E World Religions	4
Phil 377C Contemporary European Philosophy	4
PS 280DE Introduction to Comparative Politics	4
PS 320D International Politics	3
PS 380DE Comparative Communist Systems	3
Psych 375D Multicultural Psychology	3
Soc 301DE Comparative Societies	4
Total	6-8

Group 2:

Area Emphasis:

Two (2) courses focused on one of the following areas: Africa, Asia, Europe or Latin American (selected from Group 1 above, not used to satisfy Group 1 requirements).

Total 6-8

Alternative Study Program:

The requirement of the two (2) additional courses from I and II, Group 2 may be satisfied by successful completion of a semester of study abroad in an approved SOBA study abroad program (not including the Semester Abroad Program in England). The completion of an additional semester will meet the requirements of II, Group 1.

Group 3:

Modern Language:

Two years of one modern language or one year each of two modern languages if one of two languages is Japanese.

III. Total Free Electives 16-18

TOTAL REQUIRED FOR GRADUATION** 128

*The 15-16 credits used to satisfy an option in International Business may not be used to satisfy any other major, minor or option.

**In addition to the above course requirements, a student studying International Business must complete an International Experience. This requirement can be met in several ways: (1) Participation in a Semester Abroad program such as those described under Special Academic Programs in this catalog (the Japan Program, programs in Mexico, and the Junior Trimester Abroad offered through the School of Business Administration). Other programs of this type are offered through other colleges and universities. (2) Participation in an international exchange program in any discipline; (3) Participation in any summer Innovative Month program which includes an international experience. (4) Residence abroad - minimum of three months; or (5) Extensive individual travel abroad. Each method requires documentation, and need approval of the dean on a case by case basis.

***Completion of either BA 309W or BA 349W fulfills the Group W requirement for students in the international business option.

Management

Course listings for Business Administration begin on Page 127.

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.

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside of the School of Business Administration, a student studying management must complete the following requirements:

One 300- or 400-level Economics course*** 4

A minimum of 15 credits from the following courses*:

BA 302W Human Resource Management*** 4
 BA 308 Office Management 3
 BA 309 International Management 3
 BA 313C Ethical Issues in Business 3

BA 330 Tourism and Resort Management 4
 BA 357 Studies in Operations Management 4
 BA 360 Introduction to Management Science 3
 BA 370 Topics in International Business 3
 BA 371D Fundamentals of International Business 3
 BA 390 Special Topics in Management 1-4
 BA 401W Entrepreneurship and Small
 Business Management*** 3
 BA 407W Management Consulting*** 4
 BA 415 Management in Action 3
 BA 437 Internship in Business - Management 3
 BA 439 Marketing and Management of Services 4
 Econ 375D Industrial Organization** 4
 Total 15*

*The 15 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.

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

***Completion of Econ 472W, BA 401W or BA 407W fulfills the Group W requirement for students in the management option.

Marketing

Course listings for Business Administration begin on Page 127.

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.

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside of the School of Business Administration, a student studying marketing must complete the following requirements:*

One 300- or 400-level Economics course 4

Required:

BA 445W Marketing Strategy and Policy** 4
BA 446 Marketing Research** 4

A minimum of 7 credits from the following courses:

BA 339 Selling 4
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 349 Global Marketing 4
BA 390 Special Topics in Marketing 1-4
BA 437 Internship in Business - Marketing 3
BA 439 Marketing and Management of Services 4

Total 15*

*The 15 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.

**Completion of this course fulfills the Group W requirement for students in the marketing option.

Operations Management

Course listings for Business Administration begin on Page 127.

Operations Management is the core of any organization, including not-for-profit organizations. Operations is where services are delivered, where goods are produced - and where most people work. Essentially every person in an organization will either be involved in operations or be in contact with operations personnel. The efficient and effective management of operations determines America's productivity in producing goods and delivering services, and therefore, is directly linked to America's standard of living. Only through an increase in productivity can a nation's standard of living continue to rise.

The primary function of Operations Management is to efficiently and effectively convert inputs into products and services. This option in Operations Management studies the concepts and decision-making tools necessary for managing an organization's productive resources. Although Operations Management has its origins in the sciences and mathematics, it does not ignore the essential human factors. Key issues addressed are quality, timeliness, global competitiveness, productivity and flexibility. In addition, Operations Management has the distinction of integrating the ideas and concepts from other disciplines such as marketing, industrial engineering, accounting, finance, economics and human-resource management.

In addition to the College's General Requirements, the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside the School of Business Administration, a student studying operations management must complete the following requirements:

Select one of the following:

Econ 335 Environmental Economics 4
Econ 462 Microeconomics Theory 4

Select at least three courses from Group A and at least one course from Group B for a minimum of 15 hours.

Group A:

Acc 327 Cost Accounting 4
BA 357 Studies in Operations Management
(may be repeated) 4
BA 360B Introduction to Operations Research 4
BA 439 Services Management 4
Math 340B Regression Analysis 4
Math 350B Design and Analysis of Experiments 3

Group B:

BA 302W Human Resource Management** 4
BA 308 Office Management 3
BA 309W International Management 3
BA 313C Ethical Issues in Business 3
BA 407W Management Consulting** 4
BA 415 Management in Action 3-6
BA 437 Internship in Business - Operations related 3
GS 361W Computers and Human Issues 4

Total 15*

*The 15 credits used to satisfy an option in Operations Management may not be used to satisfy any other major, minor, or option within the School of Business Administration.

**Completion of either BA 302W or BA 407W fulfills the Group W requirement for students in the operations management option.

Tourism and Resort Management

Course listing for Business Administration begin on Page 127.

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 option addresses this need.

This 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.

In addition to the College's General Requirements and the Common Requirements of the School of Business Administration, and Auxiliary Requirements outside the School of Business Administration, a student studying tourism and resort management must complete the following requirements:

One 300- or 400-level Economics course 4

Required:

BA 330 Tourism and Resort Management 4

BA 437 Internship in Business 3

(With approved industry work experience, an additional BA elective from the list below may be substituted for BA 437.)

BA 439 Marketing and Management of Services 4

Plus one additional course from the following:

BA 302W Human Resource Management** 4

BA 357 Studies in Operations Management 4

BA 407W Management Consulting** 4

BA 446 Marketing Research 4

Total 15*

*These 15 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.

**Completion of either BA 302W or BA 407W fulfills the Group W requirement for students in the tourism and resort management option.



The Durango & Silberton Narrow Gauge Train pulls out of its downtown Durango station. The train is a major tourist attraction in the Southwest.

Photo by Marwa Mohamed

REQUIREMENTS FOR MINORS IN THE SCHOOL OF BUSINESS ADMINISTRATION

REQUIREMENTS FOR A MINOR IN ACCOUNTING:

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

Acc 225 Introduction to Financial Accounting	4
Acc 226 Introduction to Managerial Accounting	4
Acc 323 Intermediate Accounting I	4
Acc 327 Cost/Managerial Accounting	4
Plus at least one of the following:	
Acc 301 Governmental/Not-For-Profit Accounting	4
Acc 324 Intermediate Accounting II	4
Acc 330W Income Tax Accounting	4
Total	20

REQUIREMENTS FOR A MINOR IN BUSINESS ADMINISTRATION:

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

Econ 266D Principles of Economics	4
Acc 225 Introduction to Financial Accounting	4
BA 260D Legal Environment of Business	3
BA 301D Management and Organizational Behavior	4
BA 340 Market Management Principles	3
Two (2) upper-division Business Administration electives	6
Total	24

REQUIREMENTS FOR A MINOR IN ECONOMICS:

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

Econ 266D Principles of Economics	4
Electives:	
Fourteen (14) semester hours of additional Economics courses, twelve (12) must be upper-division	14
Total	18

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 266D Principles of Economics	4
BA 101D Business World	4
BA 340 Marketing	4
Total	12

Group A Electives: Minimum of nine (9) hours; maximum of twelve (12) of the following:

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 349W Global Marketing	4
BA 439 Marketing and Management of Services	4
BA 445W Marketing Strategy and Policy	4
Total	9-12

Group B Elective: One business administration, accounting, or economics course, 200 or above, not from group A:

Total	24-28
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*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.

THE SCHOOL OF EDUCATION

VIRGINIA ENGMAN, DEAN

Departments:

Teacher Education - Virginia Engman, Chair

Exercise Science - Paul W. Peterson, Chair

Psychology - Beverly R. Chew, Chair

Teacher Education

Course listings for Education begin on Page 135.

Professors Virginia A. Engman and Stephen A. Roderick;

Associate Professor T. Jane deGraw;

Assistant Professors Cheryl D. Clay, Vivian Delgado, Joe Lounge, Linda L. Simmons, R. Gene Taylor and Farren Webb

Since its inception in 1970, the Department of Teacher Education has been committed to a quality program for the training of teachers. The teacher licensing programs are approved by the Colorado Department of Education (CDE). Below are descriptions of 1) available programs, 2) add-on endorsements, 3) admission requirements, and 4) course delivery options that include conventional campus courses as well as integrated and Internet courses.

Early Childhood Education: Students seeking teacher licensing at the early childhood level (ages 0-8; Pre-School, K-2) complete a baccalaureate degree and the early childhood licensing sequence. The major included in the baccalaureate degree may be the child studies self-constructed major recommended by the Teacher Education Department or it may be one of the following established majors: anthropology, biology, chemistry, English, general science, geology, history, humanities, mathematics, philosophy, physics, political science, psychology, sociology/human services or Spanish. The Colorado Department of Education has approved this program. Consult an Early Childhood Program advisor or the teacher licensing officer for details.

Middle Childhood Education (Elementary): Students seeking teacher licensing at the middle childhood level (ages 6-12; grades K-6) complete a baccalaureate degree and the middle childhood licensing sequence. The major included in the baccalaureate degree may be the interdisciplinary student-constructed major recommended by the Teacher Education Department or it may be one of the following established majors: anthropology, biology, chemistry, English, general science, geology, history, humanities, mathematics, philosophy, physics, political science, psychology, sociology/human services or Spanish. Consult a middle childhood education advisor or the teacher licensing officer for details.

Young Adult Education (Secondary): Students seeking licensing at the young adult level (ages 12-18; grades 7-12) complete a baccalaureate degree, the young adult (secondary) professional sequence and Colorado Department of Education endorsement standards. (See Endorsement Advising Checklists available in 121 Hesperus Hall.) Licenses are offered in business, English, mathematics, science, (includes biology, chemistry, geology, general science and physics). Social studies (includes anthropology, history,

economics, political science, psychology, sociology/human services, southwest studies and international studies) and Spanish. Consult a secondary education advisor or the teacher licensing officer for details.

K-12 Education: Students may seek licensing for grades K-12 (ages 6-18) in art, music and physical education. Students must complete a baccalaureate degree, the K-12 licensing program, and the Colorado Department of Education Endorsement Standards (See Endorsement Advising Checklists available in 121 Hesperus Hall). Contact a secondary education advisor or the teacher licensing officer for details.

ADD-ON ENDORSEMENTS:

Bilingual: Students seeking licensing at any level can add-on a bilingual education endorsement. In addition to the 30-hour endorsement sequence given below, the student must pass a language competency exam in Spanish, Navajo or another southwestern language. Contact the Bilingual/ESL Director or the teacher licensing officer for more details. Refer to Page 112 for course requirements.

English as a Second Language: Students seeking licensure at any level can add on an English as a Second Language (ESL) endorsement. Although no second-language competence is required, some facility in a non-English language is recommended. Contact the Bilingual/ESL Director or the teacher licensing officer for more details.

Early Childhood: Students may add an early childhood endorsement to a middle childhood (elementary) license by completing the requirements for middle childhood licensing and a minimum number of additional hours. Refer to Page 111 for course requirements.

Early Adolescent (Middle School): Students seeking teacher licensing at the early adolescent level (grades 6-8) complete a baccalaureate degree and either the middle childhood (elementary) professional sequence or the young adult (secondary) professional sequence with Colorado Department of Education endorsement standards. The Colorado Department of Education has approved

this endorsement program. Because this has been a low enrollment endorsement, courses are offered on demand. See the Department Chair for details. Refer to Page 112 for course requirements.

RULES AND REGULATIONS REGARDING TEACHER LICENSING ARE ESTABLISHED BY THE COLORADO STATE BOARD OF EDUCATION. ADJUSTMENTS ARE MADE IN THE FORT LEWIS COLLEGE PROGRAM AS THESE RULES AND REGULATIONS CHANGE. COMPLETION OF A PROGRAM SEQUENCE DOES NOT AUTOMATICALLY QUALIFY STUDENTS FOR LICENSING. STUDENTS SHOULD CONTACT THE TEACHER LICENSING OFFICER IN 121 HESPERUS HALL FOR INFORMATION ON ADDITIONAL ASSESSMENTS AND OTHER STATE REQUIREMENTS.

PHILOSOPHY

The philosophy of the Teacher Education Department draws from many sound ideas of educational theorists, past and present. The most predominant and driving element of the faculty's philosophy is the absolute worth of the individual. Hence, we adhere to Dewey's view of instrumentalism and trust in each student to adapt and use codified knowledge with varying degrees of coaching by our faculty. Our purpose is not so much to describe teaching or the perfect teacher but rather to orient the future teacher toward a reflective and flexible practice.

GOALS

The Fort Lewis Teacher Education Program is organized around a "reflective practitioner" model. The curriculum includes objectives which 1) are based on general goals, 2) are operationally stated, 3) provide measurable outcomes, and 4) lend themselves to evaluation of teacher candidate performance and overall program success. Reviewed and modified periodically, the current goals and objectives were agreed upon by the faculty and included in the institutional Accountability Plan in 1989.

The preservice teacher will be proficient in specialty areas as well as a broad pedagogical background. This combination will enable the preservice teacher to successfully facilitate learning in the selected content areas.

The preservice teacher will have an in-depth understanding of, and appreciation for, both the commonalities and the individual differences in child development and learning.

The preservice teacher will learn about people from a variety of geographic and cultural settings. Experience with these diverse populations will lead to recognition that every person is of great worth and is entitled to develop to his/her potential.

The preservice teacher will have liberal arts experiences which prepare him/her to meet the challenges of our rapidly changing world, contribute to a democratic society and promote the democratic ideal.

The preservice teacher will have a good understanding of assessment strategies and their relationships to curriculum and state-adopted content standards.

Preservice teachers will be able to communicate effectively through writing, oral presentation and interpersonal communications.

Colorado Standards

Knowledge of Content and Learning

School professionals are knowledgeable about their subjects or specialties, are knowledgeable about state-adopted content standards and know how to facilitate learning.

Diversity

Our diverse society is composed of individuals with varied experiences, values, and perspectives. The school professional appreciates and works with this diversity and provides opportunities to help students learn.

Democratic Ideal

A primary purpose of an educational system is to develop productive citizens. In our society, that means citizens who function in and contribute to a democratic society. School professionals have a special responsibility to help students thoroughly understand our democracy.

Assessment

School professionals use a variety of assessment approaches to improve learning.

Communications

School professionals are effective communicators who draw from a wealth of communication tools and practices to understand and be understood by diverse groups of individuals.

Based on these overall goals, more specific outcome objectives for students have been established:

1. Preservice teachers will demonstrate the ability to plan, conduct and evaluate lessons.
2. Preservice teachers will be able to use a variety of instructional activities that include:
 - a. clear instructional objectives.
 - b. activities which encourage critical thinking, creative thinking and problem solving.
 - c. the effective use of informal student feedback to check for understanding as well as formal learning assessment strategies.
 - d. ample opportunities for guided and independent practice.
 - e. technology appropriate to targeted products, time, place and students.
3. Preservice teachers will use appropriate classroom management strategies to:
 - a. create a positive atmosphere for learning.
 - b. set expectations commensurate with student activities.
 - c. generate enthusiasm for and stimulate interest in learning.
 - d. maximize time on task.
 - e. recognize the individual needs of students from diverse backgrounds.

4. Preservice teachers will articulate a basic knowledge of current trends as well as philosophical and historical issues facing education.
5. Preservice teachers will possess a knowledge base for identifying and serving exceptional learners and students "at risk."
6. Preservice teachers will analyze and modify their own teaching behaviors for improvement of instruction.

ADMISSION TO THE PROGRAM

The student must have been accepted into the Teacher Education Program prior to enrollment in any course required in the licensing program. The procedures for meeting the initial admission requirements may be obtained by contacting the Teacher Licensing Office. The requirements for initial admission include:

1. A passing score on the Basic Skills portion of the Program for Licensing Assessments for Colorado Educators (PLACE).
2. An acceptable oral presentation before a panel of three or more judges or completion of a college speech class with a grade of B or higher.
3. A writing sample that demonstrates proficient use of the English language. See the Teacher Licensure Officer for details.
4. Completion of fingerprinting by a law enforcement agency.
5. Evidence of prior experience working with children or youth (written on your behalf).
6. Completion of a minimum of 30 college credits. Completion of 60 college credits is required for the external program.
7. Evidence of having met at least **one** of the following:
 - a. a grade point average of at least 2.50 on a 4.00 scale for the most recent 30 semester credits of college or university work. (All credits in the term in which the 30th is reached must be included.)
 - b. a rank in the top two quartiles of the candidate's high school graduating class;
 - c. a score of 19 or above on the American College Test (ACT);
 - d. a score of 950 or above on the Scholastic Aptitude Test (SAT).

ADMISSION TO STUDENT TEACHING

Requirements for admission to student teaching are more stringent than for initial admission to the program. In addition to the criteria listed under "Admission to the Program," each candidate must:

1. Receive the recommendation of the Teacher Education Department, which considers each candidate in light of such factors as character, personal adjustment, physical condition and human relations skills.
2. Have completed 100 hours of supervised practicum experience since admission into the program.
3. Have completed 80 percent of the required courses for the major and teaching endorsement and have senior or postgraduate standing.
4. Have satisfactorily completed, with no grade lower than a C-, all education courses listed under "Departmental Requirements" and "Auxiliary Requirements."
5. Possess a minimum grade point average of 2.50 in each of the following:
 - a. overall,
 - b. the major for early childhood and middle childhood (elementary) student teachers, or the endorsement sequence for K-12 and young adult (secondary) student teachers,
 - c. the "Licensing Program."
6. Submit a completed application form 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.
7. Be prepared to move or commute to a surrounding community as the majority of student teachers are placed outside of the city of Durango.
8. Possess a minimum grade point average of 2.75 in the major for early childhood and middle childhood (elementary) student teachers, or 2.75 in the endorsement sequence for K-12 and secondary student teachers to be considered for student teaching outside of the Fort Lewis College supervising area (outside a 60-mile radius from Durango).
9. Have completed an appropriate number of the professional sequence courses at Fort Lewis College, rather than at another institution.

COMPLETION OF TEACHER EDUCATION PROGRAM

In addition to the required courses in the professional sequence, the following must be met in order for a student to be recommended for licensure.

Technology in Education

Teacher Education students must complete fifteen (15) Technology in Education (TIE) Exploration modules. Modules are available in a variety of formats including 1) scheduled workshops, 2) activities within Teacher Education courses, 3) independent study modules, and 4) by special arrangement. Completion options other than the TIE Modules must be specifically approved by the Teacher Education faculty. Students choose among module topics and format options but must meet the following criteria:

- demonstrate how computer technology fits into the context of an effective learning environment.
- demonstrate how selected computer packages could be integrated into a classroom activity.
- demonstrate a minimum level of proficiency with word processing, utility and telecommunications tools.

Portfolio

A portfolio developed by all student teachers must be successfully presented during the last two weeks of the student teaching semester. A portfolio is a compilation of examples of the candidate's best work and should illustrate 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 collection of portfolio assessment rubrics is available from the Teacher Licensure Office detailing the expected content and format of the portfolio presentation.

GENERAL REQUIREMENTS FOR COLORADO LICENSURE

Upon successful completion of the Teacher Licensing Program, students may apply for licensure in any state. Requirements for certification/licensure will vary from state to state. Colorado requirements include:

1. Completion of an appropriate degree for the license and/or endorsement program from an accepted institution.
2. Satisfactory completion of the Teacher Licensing Program.
3. Satisfactory completion of all required PLACE exams.
4. Submission of a completed application provided by the Colorado Department of Education.

ADMISSION OF TRANSFER OR UNCLASSIFIED STUDENTS

Transfer or unclassified students will be accepted into the Teacher Licensing Program if prior preparation and scholastic achievement meet the requirements listed under "Admission to the Program." The requirements listed under "Admission to the Program" and "Admission to Student Teaching" apply to these students. Written evaluation and acceptance of the student's teaching field preparation by the appropriate academic department of Fort Lewis College are required. Students should contact an advisor in the Teacher Education Department as soon as possible to plan their program.

EARLY CHILDHOOD LICENSING PROGRAM

- Option I - Conventional Program (Campus Courses)
- Option II - External Program (Internet Courses)

Departmental Requirements:

The following courses require admission to the Teacher Licensing Program and many have prerequisites; consult course descriptions. Instructor permission is required for all course substitutions/equivalents. (See above for qualifications for admission.)

	<i>Credits</i>
Ed 307 Introduction, Methods and Practicum in Early Childhood.....	4
Ed 316 Elementary Teacher Aide Practicum and AV (K-2 Setting)	2
Ed 353 Growth and Development of the Young Child	2
Ed 357 Language Arts for the Young Child	2
Ed 359 Creative Arts for the Young Child	2
Ed 361 Methods of Teaching Reading and Reading Diagnosis	4

Ed 324 Methods and Practicum in Teaching Exceptional Elementary Children	4
Ed 440 Behavior/Classroom Management	3
Ed 451 Preschool Teaching Practicum and Multicultural Seminar	3
Ed 453 Cognitive Skills	3
Ed 456 Early Childhood Administration/Parent Community Relations	3
Ed 492 Lab Experience and Seminar in the Kindergarten/Primary (1-2) School Setting	15
Total	47

Auxiliary Requirements:

Psych 218 Psychological Foundations of Education	2
Psych 254D Life Span Human Development	4
Total	6
Total	53

MIDDLE CHILDHOOD EDUCATION LICENSING PROGRAM (K-6)

Option I - Conventional Program (Campus Courses)

Option II - External Program (Internet Courses)

Option III - BLOCK Program (Integrated Campus Courses)
(The BLOCK Program requires special application/acceptance.)

Departmental Requirements:

The following courses require admission to the Teacher Licensing Program and many have prerequisites; consult course descriptions. Instructor permission is required for all course substitutions/equivalents. (See above for qualifications for admission.)

	Credits
Ed 308 Introduction to Elementary Teaching Methods	3
Ed 316 Elementary Teacher Aide Practicum and AV	2
Ed 324 Methods and Practicum in Teaching Exceptional Elementary Children	4
Ed 410 Mathematics in the Elementary School	2
Ed 361 Methods of Teaching Reading and Reading Diagnosis	4
Ed 440 Behavior/Classroom Management	3

Ed 412 Science, Health and Evaluation in the Elementary School	4
Ed 415 Methods of Teaching Social Studies	2
Ed 433 Language Arts in the Elementary School	2
Ed 494 Laboratory Experience and Seminar in the Elementary School	15
Total	41

Auxiliary Requirements:

Psych 218 Psychological Foundations of Education	2
Psych 254D Life Span Human Development	4
ES 370 Methods of Teaching Exercise Science in the Elementary School	3
Art 273 Art for Elementary Teachers or Mu 316 Music in the Elementary School	3
Total	12
TOTAL	53

YOUNG ADULT LICENSING PROGRAM (Grades 7-12)

Option I

Departmental Requirements:

The following courses require admission to the Teacher Licensing Program and many have prerequisites; consult course descriptions. Instructor permission is required for all course substitutions/equivalents. (See above for qualifications for admission.) Additional courses in the licensure area are also required to meet the Colorado Department of Education endorsement standards.

	Credits
Ed 309 Orientation to Secondary Teaching	4
Ed 325 Exceptional Students: Secondary	4
Ed 362 Teaching Reading in the Content Area: Secondary	3
Ed 441 Classroom Management	3
Ed 467 Secondary Methods	3
Ed 495 Laboratory Experience and Seminar in Secondary School	15
Total	32
Auxiliary Requirements:	
Psych 218 Psychological Foundations of Education	2
Total	34

Option II

(CORE Program for Secondary or K-12 Licensing - Instructor Permission Required)

	Credits
Ed 457 Secondary Education Core of Satellites	5
Ed 458 Secondary Education Satellites Research	6
Ed 311 Advanced Secondary Teacher Aide Practicum	1-3
Ed 312 Advanced Middle School Teacher Aide Practicum	1-3
Ed 495 Laboratory Experience and Seminar in Secondary School	15
Total	30-32

Auxiliary Requirements:

Psych 218 Psychological Foundations in Education	2
Total	30-34

K-12 LICENSING PROGRAM

(Art or Physical Education)

Departmental Requirements:

The following courses require admission to the Teacher Licensing Program and many have prerequisites; consult course descriptions. Instructor permission is required for all course substitutions/equivalents. (See above for qualifications for admission.) Additional courses in the licensure area are also required to meet the Colorado Department of Education endorsement standards.

	<i>Credits</i>
Ed 309 Orientation to Secondary Teaching	4
Ed 310 Advanced Elementary Teacher Aide Practicum	1
Ed 324 Methods and Practicum in Teaching Exceptional Elementary Children	
<i>or</i>	
Ed 325 Exceptional Students: Secondary	4
Ed 362 Teaching Reading in the Content Area: Secondary	3

Ed 440 Behavior/Classroom Management	
<i>or</i>	
Ed 441 Classroom Management	3
Ed 467 Secondary Methods	3
Ed 494 Laboratory Experience and Seminar in the Elementary School	
<i>and</i>	
Ed 495 Laboratory Experience and Seminar in the Secondary School	15
Total	33

Auxiliary Requirements:

Psych 218 Psychological Foundations of Education	2
Psych 254D Life Span Human Development	4
Methods Course in Major, if appropriate	0-3
Total	6-9
Total	39-42

MUSIC EDUCATION K-12 LICENSING PROGRAM

Departmental Requirements:

The following courses require admission to the Teacher Licensing Program. Instructor permission is required for all course substitutions/equivalents. (See above for qualifications for admission.) Additional courses in the Music Department are also required to meet the Colorado Department of Education endorsement standards.

	<i>Credits</i>
Ed 309 Orientation to Secondary Teaching	4
Ed 324 Methods and Practicum in Teaching Exceptional Elementary Children	
<i>or</i>	
Ed 325 Exceptional Students: Secondary	4
Ed 440 Behavior/Classroom Management	
<i>or</i>	
Ed 441 Classroom Management	3

Ed 494 Laboratory Experience and Seminar in the Elementary School	
<i>and</i>	
Ed 495 Laboratory Experience and Seminar in the Secondary School	15
Total	26

Auxiliary Requirements:

Mu 314 Choral Methods	3
Mu 315 Instrumental Methods	3
Mu 316 Elementary/General Methods	3
Psych 218 Psychological Foundations of Education	2
Psych 254D Life Span Human Development	4
Total	15
Total	41

ADD-ON ENDORSEMENTS

EARLY CHILDHOOD ENDORSEMENT

Departmental Requirements:

Students who complete the middle childhood (elementary) Licensing Program* requirement may complete the following courses to add on an early childhood endorsement.

	<i>Credits</i>
Ed 307 Introduction, Methods and Practicum in Early Childhood	4
Ed 359 Creative Arts for the Young Child	2
Ed 451 Preschool Teaching Practicum and Multicultural Seminar	3

Ed 453 Cognitive Skills	3
Ed 456 Early Childhood Administration/Parent Community Relationships	3
Total	15

*Students desiring to add an early childhood endorsement to the middle childhood (elementary) license will be required to complete Ed 492 Lab Experience and Seminar in the Kindergarten/Primary (1-2) school setting.

ADD-ON ENDORSEMENTS

EARLY ADOLESCENT ENDORSEMENT

Departmental Requirements:

Students who complete the middle childhood (elementary) or secondary Licensing Program requirements may complete the following courses to add on an early adolescence (middle school) endorsement.

The following courses require admission to the Teacher Licensing Program. (Refer to Page 108 for qualification for admission.)

	Credits
Ed 470 Middle School History and Philosophy	2
Ed 471 Middle School Organization, Methods and Materials	4
Ed 472 Communication Skills for Young Adolescents	3

Ed 473 Psychology of Young Adolescents 3

In addition to the courses listed above, students must enroll in 1-3 hours of middle school pre-student teaching practicum. Additionally, a student must enroll in 5-10 hours of middle school student teaching. The exact number of required hours will be based on a review of the student's previous practica and/or related and appropriate experiences. Students should consult with the Department Chair for this determination.

Ed 312 Middle School Teacher Aide Practicum	1-3
Ed 497 Laboratory Experience and Seminar in the Middle School	5-10
Total	18-25

BILINGUAL ENDORSEMENT

(Available to all students seeking licensure.)

Core Requirement - Complete 18 hours

Ed 330 Human Relations in the Classroom	3
Ed 331E The Southwestern Minority Child in the Classroom	3
Ed 332 Materials and Methods of Bilingual Education	3
Ed 334 Methods of Teaching English as a Second Language	3
Ed 333 Southwest Language Immersion	3
<i>or</i>	
Ed 390 Special Topics: Language Learning and Teaching	3
Engl 462A1 Linguistics	3

Cultural Emphasis: Literature/Art

Choose six hours from the following or see the Bilingual/ESL Advisor for other courses which meet requirements:

Engl 280A1 Literature of the Southwest	3
Engl 380E Native American Literature	3
ML 321A1E Survey of Hispanic American Literature I	3

ML 322A1E Survey of Hispanic American Literature II	3
ML 427A1E Hispanic American Novel and Poetry	3
ML 429A1E Mexican Literature	3
SW 265A2 Art History of the Southwest	3

Cultural Emphasis: Social Science

Choose six hours from the following or see the Bilingual/ESL Advisor for other courses which meet requirements:

Anth 361CE North American Indians	3
Hist 270CE Colonial Latin America	3
Hist 271CE Latin America Since Independence	3
Soc 279D Ethnicity, Gender and Class in the Southwest	4
Soc 376D Language and Social Behavior	4
SW 123CE American Indian History	3
SW 280DE Native American in the Modern World	3

Total 30-32

ENGLISH AS A SECOND LANGUAGE ENDORSEMENT

(Available to all students seeking licensure.)

Core Requirements - Complete 18 hours

Credits	
Ed 330 Human Relations in the Classroom	3
Ed 331E The Southwestern Minority Child in the Classroom	3
Ed 334 Methods of Teaching English as a Second Language	3
Ed 333 Southwest Language Immersion	3
or	
Ed 390 Special Topics: Language Learning and Teaching	3
Engl 265A1 Semantics	3
Engl 462A1 Linguistics	3

Cultural Emphasis: Literature/Art

Choose six hours from the following or see the Bilingual/ESL
Advisor for other courses which meet requirements:

Engl 280A1 Literature of the Southwest	3
Engl 380E Native American Literature	3
SW 265A2 Art History of the Southwest	3

Cultural Emphasis: Social Science

Choose six hours from the following or see the Bilingual/ESL
Advisor for other courses which meet requirements:

Anth 361CE North American Indians	3
Hist 270CE Colonial Latin America	3
Hist 271CE Latin America Since Independence	3
Soc 279D Ethnicity, Gender and Class in the Southwest	4
Soc 376D Language and Social Behavior	4
SW 123CE The American Indians	3
SW 280DE Native American in the Modern World	3

Total 30-32

Exercise Science

Course listings for Exercise Science begin on Page 142.

Professor Charles H. Walker;

Associate Professors Paul W. Petersen, Carol M. Seale;

Assistant Professors James S. Cross, Mary Ann Erickson, William E. Hayes, Marcelyn B. Jung,

Melissa Knight-Maloney, Cathy M. Simbeck and JoAnn C. Soignier

The objectives of the Department of Exercise Science are to
provide the following:

1. The professional preparation of skilled teachers of human movement and exercise forms as well as qualified persons in the allied areas of 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 teaching, coaching, fitness, leisure and athletic training.
4. Professional leadership for the intramural, recreational and fitness activities of the students.

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

General Studies	Credits 35
Specific Departmental Requirements:	
ES 150 Sociocultural Foundations of Human Movement	3
ES 165 Community First Aid and Safety	2
ES 224 Basic Principles of Athletic Training	3
ES 243 Personal Health	3

ES 301W Current Issues in Sport or	
ES 302W Issues in Health and Well-Being	3
ES 330 Anatomical Kinesiology	3
ES 332 Biomechanical Analysis and Application	2
ES 340 Motor Learning and Control	3
ES 350 Measurement and Evaluation	3
ES 360 Exercise Physiology	4
ES 363 Computer Applications in Exercise Science	3
ES 375 Psychology of Sport	2
ES 480 Administration of Programs in Exercise Science	3
ES 496 Senior Seminar and Research in Exercise Science	2

Total 39
Area of Concentration (11-14)

Writing Course Within Discipline:
Included in Specific Departmental Requirements above.

Auxiliary Requirements from Other Departments:	
Bio 121B Human Anatomy and Physiology	3
Psych 157D Introduction to Psychology	3
Total	6
Electives	48
TOTAL REQUIRED FOR GRADUATION	128

Psychology

Course listings for Psychology begin on Page 160.

Professors Roger P. Peters and Thomas A. Skurky;
Associate Professors Michael C. Anziano, Alane Brown, Beverly R. Chew, Betty J. Dorr,
Janet L. Jones, Mukti Khanna and Marilyn S. Leftwich;
Assistant Professor Ziarat Hossain

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.

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

General Studies Credits
approximately 44

Specific Departmental Requirements:

1. Core Program (ALL required.
Complete in the order listed) 19
Psych 157D Introduction to Psychology 3
Psych 241B Basic Statistics for Psychologists 4
Psych 296W Psychological Research Methods 4
Psych 300 Methods of Inquiry 4
Psych 496 Senior Seminar 4
2. Psychology Electives 20
The student must complete an additional 20 credits in psychology. 12 of these 20 credits must be from upper-level courses (those numbered 300 and above). No more than four credits of Independent Study (Psych 229/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 39

Writing Course Within Discipline:

Included in Specific Departmental Requirements above.

The requirements for a Bachelor of Arts degree in Psychology may be summarized as follows:

	Credits
General Studies	approximately 44
Core Program in Psychology	19
Psychology Electives	20
General Electives	approximately 45
TOTAL REQUIRED FOR GRADUATION	128

A minor in psychology is available for students majoring in other disciplines. Requirements for a minor in psychology are described below.

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY:

A minor in psychology consists of at least 20 credits, distributed as follows: Psych 157D, Psych 241B, either Psych 296W or Psych 300, and three additional psychology courses, two of which must be upper-division.

HUMANITIES MAJORS

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 241. The Senior Seminar, Psych 496, requires the following prerequisites: Psych 157, Psych 241, 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 towards a primary or secondary concentration.



COURSE LISTINGS

Index

Accounting	120
Agriculture	120
Anthropology	121
Art	123
Biology	125
Business Administration	127
Chemistry	130
Communications	132
Composition (Writing Program)	132
Computer Science Information Systems (CSIS)	132
Cooperative Education	134
Economics	134
Education (Teacher)	135
Engineering	139
English	139
Environmental Policy	142
Exercise Science	142
Forestry	144
French	144
General Science	145
General Studies	145
Geography	145
Geology	146
German	147
History	148

Honors.....	151
Humanities	151
International Studies.....	151
Independent Study.....	151
Individualized Study	151
Japanese	151
Latin	151
Mathematics	151
Music.....	153
Navajo	156
Philosophy	156
Physical Education.....	157
Physical Science	157
Physics.....	158
Political Science.....	159
Psychology	160
Religious Studies	162
Sociology/Human Services	162
Southwest Studies.....	164
Spanish	165
Special Topics	166
Theatre	167
Transitional Studies	168
Women's Studies	168
Writing Program (Composition)	169

Courses

COURSE LISTINGS AND DESCRIPTIONS

Fort Lewis College does not offer all the classes listed in this catalog every trimester or every year.

The following pages provide brief descriptions of course offerings open to students to complete minors or degrees in majors or satisfy general requirements. Course listings are subject to change.

Each trimester the college publishes a schedule of courses which provides a detailed list of courses offered and the times and places of instruction. Courses listed in this schedule are subject to change.

EXPLANATORY NOTES

Numbering of courses:

Course numbering is based on the content of material presented in courses.

Courses numbered:

100-299 primarily for freshman 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 instructors 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 which 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 prerequisites.

Corequisite. A requirement which 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. 1-3 indicates variable credit; the minimum and maximum credit limitations per term are shown. An example:

BA 499 Independent Study 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Approval of the Dean of the School of Business Administration.

KEYS TO SYMBOLS

Course descriptions include a variety of symbols conveying essential information. The following standard course description with explanation of symbols serves as a model:

BA 407W Management Consulting (2-4) 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. Fall and winter terms.

Prerequisites: BA 340, 353 and 380, senior standing and consent of instructor.

BA - department designator

495 - course number

D - suffix indicates course meets general distribution group requirement. Courses taken in the major will not apply toward groups except for the broad general majors of humanities, general science and Southwest Studies. Courses identified with more than one group letter can be used to satisfy only one group requirement.

Aspects of Business - course title

(3-2) 4 - (clock hours in lecture per week - clock hours in laboratory experiences per week) number of credits

"Integrating prior" - explanation of course content

Prerequisite - requirements which must be fulfilled before enrolling in the course.

Fall, winter, summer - offered fall, winter, and summer terms.

Note: Not all of the above information may be noted in each course.

Additional symbols include:

A1 Suffix indicates course meets group A1 general requirement

A2 Suffix indicates course meets group A2 general requirement

B Suffix indicates course meets group B general requirement

C Suffix indicates course meets group C general requirement

D Suffix indicates course meets group D general requirement

E Suffix indicates course meets group E general requirement

W Suffix indicates course meets group W general requirement

L Suffix indicates lab course

(See Page 37.) Courses with two or more letters after the number may qualify for each of the general distribution sections indicated, but only one will count toward the degree.

Accounting

Acc 225 INTRODUCTION TO FINANCIAL ACCOUNTING (4-0) 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. Fall, winter and summer terms.

Prerequisites: Comp 150 and Lib150, or concurrent enrollment.

Acc 226 INTRODUCTION TO MANAGERIAL ACCOUNTING (4-0) 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. Fall, winter and summer terms.

Prerequisite: Acc 225.

Acc 232 PREPARATION OF YOUR INCOME TAX RETURN (3-0) 3

A non-technical approach to the fundamental concepts and mechanics of preparation of federal income tax returns. All classes of individual returns and commonly encountered business forms are covered. Offered on demand.

Acc 301 GOVERNMENTAL/NOT-FOR-PROFIT ACCOUNTING (4-0) 4

This course covers accounting standards and principles applicable to local and state governments and other not-for-profit entities. Fall term.

Prerequisites: Acc 323 or permission of instructor.

Acc 319 MANAGERIAL ACCOUNTING (3-0) 3

The application of accounting information for the principal purpose of making managerial decisions is stressed. Topics include: the analysis and interpretation of financial statements; budgeting for planning and control; cost behavior (cost-volume-profit relationships); relevant cost analysis for making long- and short-range capital expenditure decisions; and the impact of income taxes on management planning. This course is not available to students who have over 14 semester credits in accounting. Offered on demand.

Prerequisites: Junior standing and Acc 226.

Acc 323 INTERMEDIATE ACCOUNTING I (4-0) 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. Fall and summer terms.

Prerequisites: Junior standing and Acc 226.

Acc 324 INTERMEDIATE ACCOUNTING II (4-0) 4

Continuation of financial accounting theory and problems. In addition, partnership accounting and an introduction to business combinations are covered. Winter and summer terms.

Prerequisite: Acc 323.

Acc 327 COST/MANAGERIAL ACCOUNTING (4-0) 4

Emphasis on standard costs, analyses for decision making and other special cost and analysis problems. Fall and summer terms.

Prerequisites: Junior standing and Acc 226.

Acc 330W INCOME TAX ACCOUNTING (4-0) 4

A brief history of the income tax, income tax accounting and a study of current federal income tax provisions are presented. Winter term.

Prerequisite: BA 221 and Acc 323 or consent of instructor.

Acc 431 ADVANCED INCOME TAX ACCOUNTING (3-0) 3

An introduction to tax research and planning, federal income tax treatment of taxpayers other than individuals (corporations, subchapter S corporations, partnerships, trusts and estates), the treatment of property transfers subject to federal and state gift and death taxes. The student will learn and use methodology of tax research. Offered on demand.

Prerequisite: Acc 330.

Acc 432 APPLIED TAX RESEARCH (3-0) 3

This course covers tax research and planning. Students learn to analyze tax problems and communicate a solution in written and oral format. Computer-based research techniques are used. Fall term.

Prerequisite: Acc 330.

Acc 434 ADVANCED ACCOUNTING (4-0) 4

This course develops basic accounting principles relating to consolidated statements, fund and governmental accounting, bankruptcies, receiverships, estates and trusts, actuarial accounting. Winter term.

Prerequisite: Acc 324.

Acc 435 SURVEY OF ACCOUNTING THEORY TRENDS (4-0) 4

The origin and development of accounting; a review of the ideas of leading accounting theoreticians; an examination of current accounting theory; a look at accounting theory as it relates to the CPA examination. Offered on demand.

Prerequisite: Acc 324.

Acc 436W AUDITING - THEORY AND PRACTICE (4-0) 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. Fall term.

Prerequisites: BA 221, Acc 323, and Acc 327 or consent of instructor.

Acc 438 ADVANCED AUDITING (2-0) 2

Continuation of Acc 436W with additional emphasis on statistical sampling and preparation for the auditing portion of the CPA exam. Winter term.

Prerequisite: Acc 436W.

BA 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Fall and winter terms.

Prerequisite: Approval of the Dean of the School of Business Administration.

Agriculture

Ag 101B INTRODUCTORY ANIMAL SCIENCE (3-3) 4

Basic introduction to the aspects of animal science, concentrating on products, reproduction, genetics, anatomy, basic production in cattle, sheep, swine and dairy. Fall term.

Ag 102B PRINCIPLES OF CROP PRODUCTION (3-3) 4

Basic principles of crop production, concentrating on growth, development, management, utilization and cultural practices dealing mainly with the crops of Colorado. Winter term.

Ag 150 FARM RECORDS AND ACCOUNTS (3-0) 3

This course is designed to give proficiency in keeping farm records for income tax and management purposes. Fall term.

Ag 202 INTEGRATED PEST MANAGEMENT/WEED CONTROL (3-3) 4

Principles and practices of weed control and integrated pest management. The recognition of important weed and insect pests. Fall term.

Ag 204 FORAGE PRODUCTION AND MANAGEMENT (3-0) 3
Principles and practices of forage production and management in the United States. Fall term.

Prerequisite: Ag 102B or consent of instructor.

Ag 235 SOILS AND SOIL FERTILITY (3-3) 4
A basic course dealing with soil formation, physical and chemical properties, fertility, management and conservation. Winter term.

Prerequisite: Chem 150B.

Ag 240 PRINCIPLES OF ANIMAL NUTRITION (3-3) 4
Nutrient sources and requirements of livestock, including ration balancing and laboratory analysis of feedstuffs. Winter term.

Prerequisite: Ag 101B or consent of instructor.

Ag 300D AGRICULTURAL ISSUES IN SOCIETY (3-0) 3
The human population relies on agriculture to provide food and fiber for its very existence. As consumers we sometimes fail to recognize the inherent environmental, economic, and social problems created as a direct result of our demands for a safe and abundant supply of agricultural products. This course will explore some of the problem areas directly and indirectly associated with production, distribution, and consumption of agricultural commodities. Students will have the opportunity to examine and openly discuss numerous controversial agricultural issues of our time in an attempt to separate fact from fiction and reality from sensationalism. Winter term of even-numbered years.

Prerequisite: Comp 150 and LIB 150.

Ag 301 RANGE MANAGEMENT (3-3) 4
Application of range science principles in managing rangelands emphasizing range history, ecology, multiple-use, grazing systems, range improvements and identification, physiology and utilization of important range plants. Fall term.

Prerequisites: Bio 111B.

Ag 325 BEEF SCIENCE (3-0) 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. Winter term.

Prerequisite: Ag 101B.

Ag 346 AGRICULTURAL MARKETING (3-0) 3
An introduction to agricultural grain and livestock marketing in the U.S. Basic marketing principles and practical marketing strategies will be discussed. Winter term.

Prerequisite: Recommended BA 340.

Ag 350 AGRICULTURAL LAW (3-0) 3
An overview of the U.S. judicial system and a study of various laws, regulations and case decisions which directly pertain to the agricultural production sector. Fall term.

Ag 370 INTERNSHIP IN AGRICULTURE 3
Directed work experience in agricultural production and agribusiness. Minimum requirements are that students maintain a detailed journal and complete a term paper. Requires at least 125 hours of directed experience.

Prerequisite: Agriculture or biology major and consent of supervising faculty member.

Ag 380W EVOLUTION AND PATTERNS OF BIOLOGICAL THOUGHT (4-0) 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 subdisciplines of Biology and Agriculture will be covered. This course is the same as Bio 380W.

Prerequisites: Comp 150, LIB 150, junior standing, Bio 206, Bio 207, Chem 150B and Chem 151.

Ag 385W CASE STUDIES IN AGRICULTURE/ RESOURCE MANAGEMENT (4-0) 4

This course requires students to analyze case studies in agriculture and resource management. Areas of study will include integrated pest management, forage production and management, livestock production and management, agribusiness management and natural resource management. Students will be required to prepare professional publications in both written and electronic form and make a formal presentation of their findings to the class.

Prerequisite: Comp 150, LIB 150, junior standing or instructor permission.

Anthropology

Anth 151C INTRODUCTION TO ANTHROPOLOGY (4-0) 4
A comprehensive 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. Fall and winter terms.

Anth 171C WORLD ARCHAEOLOGY (4-0) 4
This course serves as an introduction to the great multiplicity of cultures of the past. In reviewing world archaeology, students are introduced not only to the great range of archaeological techniques, but also to how Western perception of other peoples' pasts have colored our interpretations. Offered on demand.

Anth 201C INTRODUCTION TO ARCHAEOLOGY (4-0) 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. Fall and winter terms.

Anth 210C INTRODUCTION TO SOCIOCULTURAL ANTHROPOLOGY (4-0) 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 to the consideration of modern human realities and problems. Fall and winter terms.

Anth 213CE PEASANT SOCIETIES (4-0) 4
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 perspective on world peasantries. Winter term.

Anth 215CE MAGIC AND RELIGION (3-0) 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. Offered during summer sessions.

Anth 217C CULTURAL IMAGES OF WOMEN AND MEN (4-0) 4
This course examines the images of gender and sexuality that permeate primarily North American society and that contribute to the definition and delimitation of identity and autonomy. Special attention is given to examining social hierarchies that underlay and are modified by the discourse surrounding and representations of male and female behavior. Any and all cultural products will be our objects of inquiry and analysis, from film and advertising to autobiography and other self-portraits, but our goal is to arrive at a coherent understanding of the relationship of images to social power, equality, and inequality. Offered on demand.

Anth 220C COLORADO ARCHAEOLOGY (4-0) 4
This course covers the prehistoric and historic archaeology of Colorado. It examines the historical development of archaeology in the state, our current state of knowledge, and how Colorado archaeology has developed in relationship to the wider goals of archaeology. Winter term.

- 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, 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. Summer term.
- Anth 301 BIOLOGICAL ANTHROPOLOGY** (3-3) 4
A study of the biological development of humankind. Topics include population genetics, the human skeleton, and primate and human evolution. Fall and winter terms.
Prerequisite: Junior standing.
- Anth 303W ANTHROPOLOGICAL DEBATES** (4-0) 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 and vary from semester to semester. Examples of course themes include the "race" concept, indigenous rights, ethics, repatriation, and writing culture, among others. Fall and winter terms.
Prerequisites: 45 hours college credit, anthropology major or minor, and consent of instructor.
- Anth 306C PLAINS ARCHAEOLOGY** (4-0) 4
This course examines the prehistoric and historic cultures of the Plains of North America. Particular emphasis is placed on how recent archaeological theory can contribute to a deeper understanding of past cultural dynamics. Winter term.
- Anth 308C MEDITERRANEAN ARCHAEOLOGY** (4-0) 4
This course covers the rise of ancient civilizations of the Mediterranean and combines archaeological data with historical and epigraphic evidence. A final section covers how these ancient civilizations are still an integral part of Western culture. Alternates with Anth 309C and Anth 341C.
- Anth 309C ARCHAEOLOGY OF BRITAIN** (4-0) 4
A survey of the cultural history of the British Isles from the Paleolithic to the Medieval period as seen from the archaeological record. Alternates with Anth 308C and Anth 341C.
- Anth 316 INTERNSHIP IN ANTHROPOLOGY** 1-6
This course offers practical experience for upper-division students' work 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 archaeology, museum, public health, and social work 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.
Prerequisites: Anthropology major or minor, junior standing and faculty approval.
- Anth 330C ARCHAEOLOGY OF THE SOUTHWEST** (4-0) 4
A comprehensive survey of the major archaeological traditions of the prehistoric Southwestern United States, and the environmental and cultural influences that made them distinct. Fall term.
Prerequisite: Anth 201C or consent of instructor.
- Anth 340C ANCIENT EGYPT** (3-0) 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. Summer and on demand.
- Anth 341C PREHISTORY OF EUROPE** (4-0) 4
A survey of early cultures of Europe from the earliest evidence of humans until the development of civilizations. Alternates with Anth 308C and Anth 309C.
- Anth 348C NORTH AMERICAN ARCHAEOLOGY** (4-0) 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. Fall term.
Prerequisite: Anth 201C or consent of instructor.
- Anth 350CE ETHNOLOGY OF MESOAMERICA** (4-0) 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. Alternate winter terms.
- Anth 351CE ETHNOLOGY OF ANDEAN SOUTH AMERICA** (4-0) 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 that the North American and Andean worlds intersect, as well as to the ways that Andean studies reflect and influence trends in anthropological thought. Fall term.
- Anth 353CE ETHNOLOGY OF INDIA** (4-0) 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. Alternate fall terms.
- Anth 355C ANTHROPOLOGY OF GENDER** (4-0) 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. Alternate winter terms.
Prerequisite: Anth 210C or consent of instructor.
- Anth 356C ECOLOGICAL ANTHROPOLOGY** (4-0) 4
The comparative study of human populations in ecosystems, stressing the relations between culture and the biophysical environment with the focus on cultural adaptations. Implications for anthropological theory, sociocultural evolution, and contemporary problems will be investigated. Alternate winter terms.
Prerequisite: Anth 210C or junior standing.
- Anth 357CE MEDICAL ANTHROPOLOGY** (4-0) 4
The medical systems of indigenous peoples are analyzed cross-culturally from the perspectives of epidemiology, symbolism, history, and 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.
Prerequisite: Anth 210C or junior standing.
- Anth 360C LEGAL AND ETHICAL ISSUES IN ARCHAEOLOGY** (4-0) 4
This course examines in depth the current ethical issues confronting archaeologists and those whose past they interpret. The legal foundations of those issues are studied in detail to prepare students for an understanding of the tenets of cultural resource management and conservation archaeology, and the manner in which these fields relate to interpreting the pasts of Native peoples.
Prerequisite: Anth 201C or consent of the instructor.
- Anth 361CE NORTH AMERICAN INDIANS** (3-0) 3
Archaeological, ethnological and linguistic relationships of the aboriginal peoples of North America. Offered on demand.
Prerequisite: Anth 201C or consent of instructor.

Anth 371CE ETHNOLOGY OF AMAZONIAN SOUTH AMERICA (3-0) 3

The unique cultures of the Amazon region are studied in this ethnological survey, which is designed to complement Anth 351CE. The course opens with consideration of the ways that the region and peoples of the Amazon have played a large role in European acts of global expansion and fantasies of Utopia. The major focus of the course, however, is on the relationship of Amazonian peoples to their ecosystem and the ways they have struggled to achieve autonomy over their threatened territories and ways of life.

Prerequisite: Anth 210C or consent of instructor.

Anth 388CE ETHNOLOGY OF THE SOUTHWEST (4-0) 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 people. Fall term.

Anth 395C HISTORY OF ANTHROPOLOGICAL THOUGHT (4-0) 4

A critical survey of the major schools of anthropological thought from a historical perspective. This course serves as a prerequisite to Anth 496, but may be taken by anyone interested in the development of social scientific thought.

Prerequisites: Anth 201C and Anth 210C, or consent of instructor.

Anth 396PROSEMINAR IN ANTHROPOLOGY (2-0) 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, as a rich context for the pursuit of research questions about the human condition.

Prerequisites: Anth 201C or Anth 210C or Anth 301; sophomore or junior standing.

Anth 402ADVANCED ARCHAEOLOGICAL LABORATORY TECHNIQUES (2-4) 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. Fall term.

Prerequisite: Anth 259 or consent of instructor.

Anth 403ADVANCED ARCHAEOLOGICAL FIELD TECHNIQUES 4-8

Advanced training in the techniques of archaeological survey and excavation. Students spend full days, five days a week in the field, for 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. Summer term.

Prerequisite: Anth 259 or equivalent, or consent of instructor.

Anth 430ADVANCED STUDIES IN SOUTHWESTERN ARCHAEOLOGY (4-0) 4

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 research will focus on current topics in archaeology. Winter term.

Prerequisite: Anth 330C or consent of instructor.

Anth 450ADVANCED RESEARCH IN LATIN AMERICAN ANTHROPOLOGY (2-0) 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 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. Formulation of research for possible post-BA Fulbright grant requests will be emphasized, as well.

Prerequisites: Anth 350CE or Anth 351CE or Anth 371CE or Anth 213CE or consent of instructor.

Anth 455ADVANCED RESEARCH IN THE ANTHROPOLOGY OF GENDER (2-0) 2

Students will work all term on a focused research project that required familiarity with gender research in the social sciences. Common course readings and discussions will center around feminist research methods, and the ethical implications and applications of such research. Students who wish to rework their research into a proposal for post-BA fellowships (e.g., Fulbright) will be given guidance.

Prerequisites: Anth 217C, Anth 355C, WS 201, or consent of instructor.

Anth 496SENIOR CAPSTONE SEMINAR IN ANTHROPOLOGY (2-0) 2

Advanced reading, writing and seminar discussion centered on integrating the undergraduate anthropological career and on thinking about and working towards incorporating an 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.

Prerequisites: Anth 201C, Anth 210C, Anth 301, Anth 303W and Anth 396.

Anth 499INDEPENDENT STUDY 1-3

Original individual research is conducted under the supervision of a faculty member. This course fulfills the requirement for research-base. Offered on demand.

Prerequisites: Anth 210C, Anth 201C and consent of department chair.

Art**Art 101A2 DRAWING (1-6) 4**

Introduces students to the fundamentals of drawing. Includes traditional representational and imaginative drawing problems, perspective, spatial illusion, and composition.

Art 109A2 BASIC DESIGN (1-6) 4

Introduces design principles and color theory. Two and three-dimensional design problems are explored.

Art 154A2 INDIAN ARTS/CRAFTS I (0-6) 3

A course which may include basketry, pottery, weaving, dying and other craft media. Whenever possible, the projects are started with the raw material. Fall and winter terms. This course is the same as SW 154A2.

Art 155A2 INDIAN ARTS/CRAFTS II (0-6) 3

A course which may include such media as weaving, silversmithing, pottery work, leathercraft, bead work and basketry. Offered on demand. This course is the same as SW 155A2.

Art 162A2 ART IN THE HUMANITIES (3-0) 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 degree.

- Art 201 FIGURE DRAWING** (0-6) 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.
Prerequisites: Art 101A2 and 109A2 and consent of instructor.
- Art 210 DESIGN II** (0-6) 3
In-depth exploration of design principles.
Prerequisite: Art 109A2.
- Art 213 BASIC SCULPTURE** (0-6) 3
A course in three-dimensional and two-dimensional (bas-relief) sculpture. Consists of modeling, carving and shaping rigid and pliable material. Some work will use the human form.
Prerequisites: Open to non-art majors without prerequisite. Art 101A2 and 109A2 are prerequisites for art majors.
- Art 224A2 BASIC PAINTING** (0-6) 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 the beginning and advanced levels.)
Prerequisites: Art 101A2 and 109A2.
- Art 226 WATERCOLOR PAINTING** (0-6) 3
This course deals with traditional and contemporary watercolor techniques as they relate to the area of Fine Arts. Subject matter will be landscape, still life and figure. Instruction in the various types and uses of papers, tools, techniques, brushes and paints will be given. Winter term.
Prerequisites: Suggested - Art 101A2 and 109A2.
- Art 227 BEGINNING MURAL PAINTING** (0-6) 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 contacted for the mural site. May be repeated once for an additional 3 credits. On demand.
- Art 231A2 INTRODUCTION TO PRINTMAKING** (0-6) 3
A studio experience exploring the materials and methods basic to making prints. Relief, etching, calligraphic and silk-screen techniques will be emphasized.
Prerequisites: Art 101A2 and 109A2.
- Art 243A2 BASIC PHOTOGRAPHY** (0-6) 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.
Prerequisites: Open to non-art majors without prerequisite. Art 101A2 and 109A2 are prerequisites for art majors.
- Art 250A2 CERAMICS** (0-6) 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. Fall and winter terms.
Prerequisites: Open to non-art majors without prerequisite. Art 101A2 and 109A2 are prerequisites for art majors.
- Art 262A2 ART HISTORY TO THE RENAISSANCE** (4-0) 4
History and appreciation of painting, sculpture and architecture in a Western and non-western society. These forms will be studied through their relationships to each other and to the societies which produced them. Fall term.
- Art 263A2 ART HISTORY FROM THE RENAISSANCE** (4-0) 4
A continuation of Art 262A2. Winter term.
- Art 264A2 ART AND CULTURE** (4-0) 4
Art and culture is a comparative art course linked to the Human Heritage courses via shared historical and multicultural perspectives and themes. It focuses on Chinese, Native American, and Western artistic traditions and how they arise from, shape, reveal, and transmit broader cultural values.
Prerequisite: Human Heritage I; or Prerequisite or corequisite Human Heritage II.
- Art 265A2 ART HISTORY OF THE SOUTHWEST** (3-0) 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. This course is the same as SW 265A2.
- Art 273 ART FOR ELEMENTARY TEACHERS** (2-2) 3
Contemporary concepts, practices, materials and methods used in the elementary school art program.
- Art 301 ADVANCED FIGURE DRAWING** (0-6) 3
A continuation of Art 201. May be repeated once for an additional 3 credits.
Prerequisites: 6 semester hours of Art 201. Consent of instructor required.
- Art 312 ADVANCED DESIGN** (0-6) 3
Problems and theory of design topics.
Prerequisite: Art 210 or consent of instructor.
- Art 313 ADVANCED SCULPTURE I** (0-6) 3
A continuation of Art 213. May be repeated once for an additional 3 credits.
Prerequisite: Art 213.
- Art 324 ADVANCED PAINTING I** (0-6) 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 individualized subject matter. May be repeated once for an additional 3 credits.
Prerequisite: Art 224.
- Art 326 ADVANCED WATERCOLOR PAINTING** (0-6) 3
Continuation of Art 226. Winter term. May be repeated once for an additional 3 credits.
Prerequisite: Art 226 or consent of instructor.
- Art 327 ADVANCED MURAL PAINTING** (0-6) 3
Continuation of Art 227. On demand.
Prerequisite: Art 227 or consent of instructor.
- Art 331 ADVANCED PRINTMAKING I** (0-6) 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.
Prerequisite: Art 231A2.
- Art 343 PHOTOGRAPHIC DESIGN** (0-6) 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.
Prerequisite: Art 243A2.
- Art 350 ADVANCED CERAMICS I** (0-6) 3
A continuation of Art 250A2. Fall and winter terms. May be repeated once for an additional 3 credits.
Prerequisite: Art 250A2.

Art 354 ADVANCED CRAFT (0-6) 3

This class is designed to increase the skill and proficiency in a craft area. (See Art 154A2 and 155A2, SW 154A2 and 155A2.)

Prerequisite: Consent of instructor.

Art 363A2 MODERN PAINTING AND SCULPTURE - 1890 TO 1945 (4-0) 4

This course examines the modern art movements reflected in painting and sculpture by developing an understanding and appreciation of the stylistic, historic and cultural background of the modern period.

Art 364A2 MODERN PAINTING AND SCULPTURE - 1945 TO 1970 (4-0) 4

This course examines the modern art movements reflected in painting and sculpture by developing an understanding and appreciation of the stylistic, historic and cultural background of the modern period.

Prerequisite: Art 363A1.

Art 365A2E MESOAMERICAN ART HISTORY (3-0) 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. Winter term.

Art 385W CONTEMPORARY ART PROCESS, THEORY, AND CRITICISM: READING, WRITING AND MAKING (4-0) 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. Offered only in Fall.

Prerequisites: Junior standing, Art 101 and Art 109, 2 art history courses, Comp 150, LIB 150.

Art 401 INTERPRETIVE DRAWING (0-6) 3

A class of interpretive drawing, using skills acquired in previous drawing classes, based on a concept approach to drawing. All media and materials used. May be repeated once for an additional 3 credits.

Prerequisite: 6 hours of Art 201.

Art 413 ADVANCED SCULPTURE II (0-6) 3

Continuation of Art 313. May be repeated once for an additional 3 credits.

Prerequisite: Art 313.

Art 424 ADVANCED PAINTING II (0-6) 3

Continuation of Art 324. May be repeated once for an additional 3 credits.

Prerequisite: Art 324.

Art 425 ADVANCED PAINTING, PORTRAIT AND FIGURE (0-6) 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.

Prerequisites: Art 224 and 201 or consent of instructor.

Art 431 ADVANCED PRINTMAKING II (0-6) 3

Continuation of Art 331. May be repeated once for an additional 3 credits.

Prerequisites: Art 231A2 and 331.

Art 443 ADVANCED PHOTOGRAPHIC DESIGN (0-6) 3

Continuation of Art 343. May be repeated once for an additional 3 credits.

Prerequisite: Art 343.

Art 450 ADVANCED CERAMICS II (0-6) 3

Continuation of Art 350. Fall and winter terms. May be repeated once for an additional 3 credits.

Prerequisite: Art 350.

Art 473 ART METHODS FOR SECONDARY TEACHERS (3-0) 3

Introduces and expands on materials for teaching studio art, art history, criticism and aesthetics in the secondary schools. Includes experiences in developing sequential semester plans in a variety of courses that integrate studio, art history and other areas. Teaching techniques will be included. On demand.

Prerequisite: Consent of instructor or senior standing.

Art 496 SENIOR SEMINAR (3-0) 3

Advanced study and research in selected topics. Completion of senior portfolio and statement.

Prerequisite: Senior Standing.

Art 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisite: Approval of department chair.

Biology**Bio 100BL LABORATORY EXPERIENCES IN BIOLOGY (0-3) 1**

This course is designed to accompany Bio 110B. Fall, winter and summer terms.

Bio 110B SURVEY OF LIFE SCIENCES (3-0) 3

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. This course is designed for non-science majors. Credit cannot be earned for both Bio 110B and 111B. Fall, winter and summer terms.

Bio 111B BIOLOGY OF THE CELL (3-3) 4

An introduction to the unifying central concepts of biology, including cell structure, evolution, respiration, photosynthesis and genetics. This course is designed for science majors. Bio 111 lab must be taken concurrently. Credit cannot be earned for both Bio 110B and 111B. Fall and winter terms.

Bio 120B ENVIRONMENTAL CONSERVATION (3-0) 3

A study of natural resources in a global context. Attention is given to public policies and programs which affect the long-range availability and use of these resources. Winter term.

Bio 121B HUMAN ANATOMY & PHYSIOLOGY (2-3) 3

An introduction to the structure and function of the human body. Fall and winter terms.

Bio 132B HUMAN SEXUALITY (3-0) 3

Biological aspects of human reproduction, supplemented by discussion of medical, societal, psychological and ethical issues. Credit not applicable to the biology major. Winter term.

Bio 206 GENERAL BOTANY (3-3) 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 the relation to humans of the fungi, algae, bryophytes, ferns, gymnosperms and angiosperms. Fall and winter terms.

Prerequisites: Bio 111B.

Bio 207 GENERAL ZOOLOGY (3-3) 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. Fall and winter terms.

Prerequisites: Bio 111B.

Bio 220 FUNDAMENTALS OF ECOLOGY (3-3) 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. One all-day Saturday field trip is required. Fall and winter terms.

Prerequisites: Bio 206 or 207, Math 121B and Math 201B or Psych 241B.

Bio 300B PLANTS AND HUMAN AFFAIRS (3-3) 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. Winter term, even-numbered years.

Prerequisite: Comp 150 and LIB 150.

Bio 301 VASCULAR PLANT MORPHOLOGY (3-3) 4

The course is a comparative evolutionary survey of the vegetative and reproductive morphology of living and fossil vascular plants.

Prerequisite: Bio 206.

Bio 302 SYSTEMATIC BOTANY (2-6) 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. Fall term.

Prerequisite: Bio 206.

Bio 303 HISTOLOGY (3-3) 4

Study of the microscopic anatomy of the vertebrate body. Fall term.

Prerequisite: Bio 207.

Bio 304 FIELD ZOOLOGY (4-3) 5

A study of vertebrate animals with emphasis on taxonomic and ecological relationships. Laboratory work includes collection, identification and museum preparation. Summer term.

Prerequisite: Bio 207.

Bio 305 ENTOMOLOGY (2-6) 4

A study of insect anatomy, physiology, identification, ecology and behavior.

Prerequisite: Bio 207.

Bio 310 POLLINATION BIOLOGY (3-3) 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. Winter term of even-numbered years.

Prerequisite: Bio 206 or Bio 207.

Bio 321 GENERAL PHYSIOLOGY (3-3) 4

Emphasis is on comparative animal physiology, covering respiration, gas transport, energy metabolism, temperature regulation, osmotic regulation, movement, and hormonal and nervous integration. Fall and winter terms.

Prerequisites: Bio 206, 207, Chem 303, 304, and Math 201B.

Bio 322 RADIATION BIOLOGY (3-3) 4

An introduction to the theory of radioactivity and the application of isotopes in medicine, physiology and research. Animals and plants will be used to demonstrate tracer techniques and results will be evaluated by use of scaler-counters and liquid scintillation. Offered on demand.

Prerequisites: Bio 111B, 206, 207, 321 and consent of instructor.

Bio 331 MICROBIOLOGY (3-3) 4

A survey of the microbial world with emphasis on ecology, physiology and genetics of prokaryotes. Laboratory activities emphasize staining, culturing and identification techniques as well as experimental exercises with bacteria of medical, economic and agricultural importance. Fall and winter terms.

Prerequisites: Bio 111B, 206, 207 and Chem 150B, 151 and 303.

Bio 332 IMMUNOLOGY (3-3) 4

An introduction to the structures and biochemical activities of antibodies and the mechanisms of the immune response. The laboratory will emphasize analytical methods of measuring antibody-antigen reactions. Fall term of odd-numbered years.

Prerequisite: Bio 331.

Bio 341 VERTEBRATE COMPARATIVE ANATOMY (2-6) 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. Fall, even years.

Prerequisite: Bio 207.

Bio 342 EMBRYOLOGY & DEVELOPMENTAL BIOLOGY OF THE VERTEBRATES (2-6) 4

A detailed study of reproduction and development in representative vertebrates. The laboratory work explores the anatomy of development in depth, and the lecture correlates this development with and explains it on the basis of cellular and molecular events during ontogeny. Winter term.

Prerequisite: Bio 207.

Bio 350 MYCOLOGY (3-3) 4

A survey of the Kingdom Fungi covering classification, physiology, development, genetics and environmental relationships peculiar to the fungi. Fall term of odd-numbered years.

Prerequisites: Bio 206 and Chem 150B, 151.

Bio 360 BRYOPHYTES AND LICHENS (2-6) 4

A course treating the taxonomy, morphology, ecology, reproduction and evolution of the Bryophytes and Lichens. Winter term of odd-numbered years.

Prerequisite: Bio 206.

Bio 370 GENETICS LABORATORY (0-3) 1

An introduction to the organisms and methodology used in genetic research. This course is designed to accompany Bio 371 for those students requiring a genetics laboratory component.

Prerequisite: 20 hours of biology or consent of instructor.

Bio 371 GENERAL GENETICS (3-0) 2

A survey of basic transmission and quantitative genetics. First two-thirds of fall and winter terms.

Prerequisite: 20 hours of biology or consent of instructor.

Bio 372 EVOLUTIONARY GENETICS (3-0) 1

A survey of the evidence for and principles and mechanisms of evolution. Last third of fall and winter terms.

Prerequisite: Bio 371.

Bio 373 MOLECULAR GENETICS (3-0) 1

A survey of modern molecular genetics, including the mechanics and regulation of transcription and translation. Last third of fall and winter terms.

Prerequisites: Chem 303, Bio 371.

Bio 380W ISSUES IN EVOLUTION AND BIOLOGICAL THOUGHT (4-0) 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 subdisciplines of Biology and Agriculture will be covered. This course is the same as Ag 380W.

Prerequisites: Junior standing, Bio 206, Bio 207, Chem 150B and Chem 151.

Bio 385 DESERT BIOLOGY (3-0) 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.

Prerequisites: Bio 206, Bio 207, Chem 150, Chem 151.

Bio 400 PLANT PHYSIOLOGY (3-3) 4

A study of plant-water relations, nutrition, metabolism and adaptations to different environments. Offered on demand.

Prerequisites: Bio 206, Chem 303 and Math 201B. Previous or concurrent enrollment in Chem 304, 311 and Bio 220 (or For 218) recommended.

Bio 407 EVOLUTION (3-0) 3

A survey of the current explanations of evolutionary mechanisms. Winter term of even-numbered years.

Prerequisite: Bio 371.

Bio 433 BACTERIAL PHYSIOLOGY (3-3) 4

Unique characteristics of metabolic pathways in bacteria will be studied. Major laboratory emphasis is placed on the interrelationships of bacteria, viruses and immune response, and their effects on human physiology. Offered on demand.

Prerequisites: Bio 321, 331 and Chem 304.

Bio 455 CELLULAR AND MOLECULAR BIOLOGY (3-3) 4

Examination of the metabolic processes of the cell with respect to organelle compartmentalization. Emphasis will be placed on bioenergetics, intermediary metabolism and the biology of the gene. Fall term.

Prerequisites: Chem 304, Bio 321 or 433. Biochemistry is strongly recommended.

Bio 456 CELL PHYSIOLOGY (3-3) 4

Examination of cell and organelle function. Topics may include cellular communication mechanisms, receptor/ligand interactions, and cell signaling and regulatory mechanisms. Laboratory may involve the use of tissues from live animals. Winter term.

Prerequisites: Bio 321, Bio 455 and Chem 304 or 311, or consent of instructor.

Bio 471 FIELD ECOLOGY 5

An advanced ecology course that emphasizes sampling methods, description of local plant and animal communities, and techniques of environmental monitoring in terrestrial and aquatic ecosystems. Summer term.

Prerequisites: Bio 220, 302, 304, and Math 201B or Psych 241B.

Bio 477 BIOGEOGRAPHY (3-3) 4

A study of current hypotheses explaining past and present distribution of plants and animals. The emphasis is on seed plants and vertebrate animals. Winter term of odd-numbered years.

Prerequisite: Consent of instructor.

Bio 480 INTERNSHIP IN BIOLOGY 3

Directed work experience in the biological sciences. Minimum requirements are that students maintain a detailed journal and complete a term paper. Requires at least 125 hours of directed experience.

Prerequisites: Biology major and consent of supervising faculty member.

Bio 496 SENIOR SEMINAR (1-0) 1

Advanced study and individual field/lab research in a topic of the student's choosing. This course must be taken fall trimester and in sequence with Bio 497 in the following winter trimester.

Prerequisites: Second trimester junior or senior standing.

Bio 497 SENIOR SEMINAR (0-3) 1

Advanced study and individual field/lab research in a topic of the student's choosing. This winter term course is a continuation of Bio 496.

Prerequisite: Bio 496.

Bio 499 INDEPENDENT STUDY 1-3

Individual research under the supervision of a faculty member.

Offered on demand. Study and proposal should begin in junior year.

Prerequisite: Approval of department chair.

Business Administration**BA 101D BUSINESS IN THE MODERN WORLD (4-0) 4**

This course introduces students to the world of business and how this world of business is influenced by the dynamically changing world. 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. **FRESHMEN AND SOPHOMORES ONLY!** Fall and winter terms.

BA 220 SPEAKING IN THE BUSINESS WORLD (1-2) 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.

Prerequisite: Comp 150, LIB 150.

BA 221 WRITING IN THE BUSINESS WORLD (1-2) 2

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. Fall, winter and summer terms.

Prerequisite: Comp 150, LIB 150, Acc 225 or concurrent enrollment.

BA 253B BUSINESS STATISTICS (4-0) 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. Credit toward graduation will be given for only one of the following courses: BA 253B, Psych 241B and Math 201B. Fall, winter and summer terms.

Prerequisite: Math 110B or Math 121B or FLC math placement score in Math 210B or Math 221B and Comp 150 and Lib 150.

BA 255 STATISTICAL INFERENCE AND COMPUTER APPLICATIONS (1-0) 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 253B - 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 253B. Offered on demand.

Prerequisites: Consent of instructor.

BA 260D LEGAL ENVIRONMENT OF BUSINESS (3-0) 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. Fall, winter and summer terms.

Prerequisites: Comp 150, LIB 150, or consent of instructor.

BA 271 PRINCIPLES OF INTERNATIONAL BUSINESS (2-0) 2

An introductory course addressing the fundamental aspects of conducting business outside the U.S. Topics covered include the nature of international business, theories of trade, trade patterns and agreements, the basics of the international monetary system and the foreign exchange markets, and basic cultural issues. Enrollment of non-SOBA majors is encouraged. Fall and winter terms.

Prerequisites: Econ 266D, concurrent enrollment or consent of instructor.

BA 301D MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (4-0) 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. Fall, winter and summer terms.

Prerequisites: Junior standing.

BA 302W HUMAN RESOURCE MANAGEMENT (4-0) 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. Winter term.

Prerequisite: BA 301D and BA 221.

BA 308 OFFICE MANAGEMENT (3-0) 3

The principles of office management. The responsibilities of management for office services, office layout and space utilization, office furniture and equipment, machines and appliances, branch office management, office personnel problems, training of office workers, office costs, and office methods and procedures are included. Individual research required. Offered on demand.

Prerequisites: Junior standing.

BA 309W INTERNATIONAL MANAGEMENT (3-0) 3

An introduction to the unique issues, challenges and opportunities confronting managers in an international environment. The relationship of socio-cultural forces to performance of management functions is emphasized. Topics will include issues such as international competitiveness, comparative management styles, corporate/government relations, entry strategies, transfer of technology, logistics and international human resource management. Winter term.

Prerequisites: BA 301D and BA 271.

BA 311 BUSINESS LAW I (3-0) 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. Fall term.

Prerequisites: BA 260D, junior standing and BA 221.

BA 312 BUSINESS LAW II (3-0) 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. Winter term.

Prerequisites: BA 260D, junior standing and BA 221.

BA 313C ETHICAL ISSUES IN BUSINESS (3-0) 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. Fall and winter terms.

Prerequisites: Junior standing.

BA 315 INTERNATIONAL BUSINESS LAW (3-0) 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. Offered on demand.

Prerequisites: BA 260D, junior standing and BA 221.

BA 330 TOURISM AND RESORT MANAGEMENT (4-0) 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. Fall term.

Prerequisite: Junior standing.

BA 339 SELLING (3-0) 3

This course focuses on the relationship between buyer and seller, the selling process, buyer behavior, negotiations, and the communication process. Offered on demand.

Prerequisite: BA 340.

BA 340 MARKETING (4-0) 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. Fall, winter and summer terms.

Prerequisites: Junior standing.

BA 342 RETAILING (3-0) 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. Winter term.

Prerequisite: BA 340.

BA 344 ADVERTISING (3-0) 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. Fall term.

Prerequisite: BA 340.

BA 346 MANAGING CUSTOMER VALUE (4-0) 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. Winter term.

Prerequisites: BA 340.

BA 347 CONSUMER BEHAVIOR (3-0) 3

This course explores behavioral theory as it relates to consumer and industrial decision processes. Relevant concepts and recent research findings are drawn from the fields of marketing, psychology, sociology, and communications. Applications of these ideas is directed toward improving marketing management and decision-making. Winter term.

Prerequisites: BA 340.

BA 348 PUBLIC RELATIONS (3-0) 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. Winter term.

Prerequisites: BA 340.

BA 349W GLOBAL MARKETING (4-0) 4

This course encompasses the study of marketing activities in the global marketplace by examining strategies that work and that don't work. A special emphasis is placed on the need to consider cultural markets, as opposed to focusing on political boundaries by examining the impact of cultural similarities, as well as differences. Fall term.

Prerequisites: BA 340 and BA 271.

BA 353 OPERATIONS MANAGEMENT (3-2) 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. Fall, winter and summer terms.

Prerequisites: Either BA 253B, Psych 241B or Math 201B and BA 221 and BA 301D, or CSIS 110B.

BA 357 STUDIES IN OPERATION MANAGEMENT (3-2) 4

A study of selected topics in operations management. This course's content will vary. Students may take this course more than once, provided the subject is different on each occasion. Some examples of different subjects are: Computer Applications in Decision-making; Quality and Productivity; Transportation and Logistics; Purchasing; Project Management; Forecasting. Offered on demand.

Prerequisite: BA 301D.

BA 360B INTRODUCTION TO OPERATIONS RESEARCH (4-0) 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. Winter term of odd-numbered years. (This course is the same as Math 360B.)

Prerequisite: Math 210B or Math 221B.

BA 370 TOPICS IN INTERNATIONAL BUSINESS 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, provided the subject is different on each occasion. Offered on demand.

Prerequisites: Junior standing or consent of instructor.

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.

Prerequisite: Consent of instructor.

BA 380 FINANCIAL MANAGEMENT (4-0) 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. Fall, winter and summer terms.

Prerequisites: Junior standing, Acc 226, BA 221, and Econ 266D.

BA 382 FINANCIAL INSTITUTIONS (4-0) 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 not be awarded for both BA 382 and Econ 382. Winter term.

Prerequisite: BA 380.

BA 386 INSURANCE (4-0) 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 type of insurance. Offered on demand.

Prerequisite: BA 380.

BA 387 REAL ESTATE (4-0) 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 financing techniques of real property. Offered on demand.

Prerequisites: BA 380.

BA 389 INTERNATIONAL FINANCE (4-0) 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. Fall term.

Prerequisites: BA 380 and BA 271.

BA 401W ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT (3-0) 3

How to conceive, initiate, organize, manage and operate a small business. Winter term.

Prerequisites: BA 221, BA 340, 353 and 380, senior standing or consent of instructor.

BA 407W MANAGEMENT CONSULTING (2-4) 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. Fall and winter terms.

Prerequisites: BA 221, BA 340, 353 and 380, senior standing and consent of instructor.

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. Offered on demand during summer term.

Prerequisites: BA 301D and consent of instructor.

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. Fall, winter and summer terms.

Prerequisites: Business majors having completed 80 semester hours and consent of instructor.

BA 439 MARKETING AND MANAGEMENT OF SERVICES (4-0) 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. Fall and winter terms.

Prerequisites: Senior standing, BA 340 and BA 353.

BA 445W MARKETING STRATEGY AND POLICY (4-0) 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. Fall term.

Prerequisites: BA 340, BA 380 and senior standing.

BA 446 MARKETING RESEARCH (3-2) 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. Fall and winter terms.

Prerequisites: BA 253B and BA 340.

BA 481W CASES IN FINANCIAL MANAGEMENT (4-0) 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. Fall term.

Prerequisite: BA 221 and BA 380.

BA 485 INVESTMENTS AND PORTFOLIO MANAGEMENT (4-0) 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. Winter term.

Prerequisites: BA 380.

BA 496 SENIOR SEMINAR IN ADMINISTRATIVE STRATEGY (4-0) 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. Fall, winter and summer terms.

Prerequisites: Senior standing and completion of Acc 225, Acc 226, Econ 266D, BA 221, BA 253B, BA 260D, BA301D, BA 340, BA 353, BA 380, and BA 446W or Econ 361 or Math 210B or Math 221B or Math 350B or Math 360B.

BA 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisite: Approval of the Dean of the School of Business Administration.

Chemistry

Chem 123B CHEMISTRY FOR CONSUMERS (3-0) 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 123B and 323B. Fall and winter terms.

Chem 124BL CHEMISTRY FOR CONSUMERS LAB (0-3) 1-1/2

A laboratory course to follow or accompany "Chemistry for Consumers." Laboratory work includes experiments involving different classes of consumer products, providing a basis for the science behind the products. (Prior or concurrent enrollment in Chemistry for Consumer lecture.) Not currently offered.

Chem 150B FUNDAMENTALS OF CHEMISTRY (4-3) 5-1/2

A conceptual approach to fundamental principles of chemistry including electronic structure of atoms and molecules, stoichiometry, solutions and states of matter, metallic and non-metallic properties, chemical thermodynamics and equilibrium, acids and bases, reaction kinetics, nuclear chemistry and electrochemistry. This is the recommended beginning course for all science majors. Fall, winter and summer terms.

Prerequisite: Either two years of high school mathematics, satisfactory performance on ACT/SAT examination or concurrent enrollment in Math 121B or 221B.

Chem 151 FUNDAMENTALS OF CHEMISTRY (4-3) 5-1/2

Continuation of Chemistry 150B. Fall, winter and summer terms.

Prerequisite: Chem 150B or consent of instructor.

Chem 300W AT THE FOREFRONT OF CHEMICAL RESEARCH (3-0) 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.

Prerequisite: Comp 150 and LIB 150.

Chem 301 SCIENTIFIC GLASSBLOWING (0-3) 1

Basic skills of glassblowing. The properties and uses of different types of glass will be considered. Simple laboratory apparatus will be designed and built.

Chem 303 ORGANIC CHEMISTRY (4-3) 5

Nomenclature, structure, stereochemistry, and reactions of aliphatic and aromatic halides, alkenes, alkynes and alcohols. Unifying principles of reaction mechanisms are introduced and applied to nucleophilic substitution and elimination and electrophilic addition reactions. The laboratory introduces techniques in separation, purification, kinetic studies and synthesis. Fall term.

Prerequisite: Chem 151 or consent of instructor.

Chem 304 ORGANIC CHEMISTRY (4-3) 5

Nomenclature, structure, spectroscopy and reactions of the major functional group classes including alcohols, ketones, aldehydes, acids, esters, amides, amines and aromatics. The chemistry of biological compounds is introduced with studies of carbohydrates and amino acids. Laboratory emphasis is on synthesis and identification of organic compounds using spectroscopic methods. Winter term.

Prerequisite: Chem 303.

Chem 305 NATURAL PRODUCTS FROM PLANTS (1-6) 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. First summer session.

Prerequisite: Chem 303.

Chem 311 GENERAL BIOCHEMISTRY I (3-0) 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. Fall term.

Prerequisite: Chem 304.

- Chem 312 GENERAL BIOCHEMISTRY LAB (0-3) 1**
Basic biochemical techniques. Fall term.
Prerequisite: Chem 311 concurrent.
- Chem 313 GENERAL BIOCHEMISTRY II (3-0) 3**
The basic principles of biochemistry. Emphasis is on nucleic acid chemistry, carbohydrates, and immune response. Winter term.
Prerequisite: Chem 311.
- Chem 323B CHEMISTRY FOR CONSUMERS (3-0) 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 123B and 323B. Fall and winter terms.
- Chem 351 PHARMACOLOGY (3-0) 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. First summer session when offered.
Prerequisite: Chem 303.
- Chem 358 PHYSICAL CHEMISTRY (3-0) 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 Boltzman distribution, energy, entropy, free energy and equilibrium, ideal solutions, and reaction rate theory. Fall term.
Prerequisites: Chem 151, Phys 217B or (201B), concurrent enrollment in Math 222.
- Chem 359 PHYSICAL CHEMISTRY (3-0) 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. Winter term.
Prerequisite: Chem 358.
- Chem 360 PHYSICAL MEASUREMENTS (0-6) 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. Winter term.
Prerequisite: Concurrent enrollment in Chem 359 or consent of instructor.
- Chem 364 INORGANIC CHEMISTRY (2-0) 2**
Occurrence, metallurgy, properties, uses of selected elements, compounds and alloys. Also included are aspects of inorganic environmental chemistry, crystal structure, stereochemistry of non-transition elements, coordination compounds, acidity and basicity, energy and chemical change, solution chemistry, solid-liquid phase equilibria, periodic relationships and organometallic compounds. Fall term.
Prerequisite: Chem 151.
- Chem 365 ANALYTICAL CHEMISTRY (3-3) 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.
Prerequisites: Chem 151,
- Chem 380 INTRODUCTION TO CHEMICAL RESEARCH (1-0) 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.
Prerequisite: Consent of instructor.
- Chem 381 INTRODUCTION TO CHEMICAL RESEARCH LABORATORY 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 (3-0) 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. On demand.
Prerequisites: Chem 313 and 358 or consent of instructor.
- Chem 431 ADVANCED ORGANIC CHEMISTRY (3-0) 3**
Advanced studies of organic reactions and reaction mechanisms. Strategies of stereoselective synthesis of complex organic molecules will be studied. Winter term.
Prerequisite: Chem 304.
- 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. On demand.
Prerequisite: The 300-level course in the specific area.
- Chem 460 SYNTHESIS TECHNIQUES (1-6) 3**
Laboratory instruction in standard advanced synthesis techniques including high and low temperatures, high pressures, photochemical syntheses, Schlenk-line manipulations and chromatographic methods. Organic, inorganic and organometallic compounds will be synthesized. The synthesis literature and spectroscopic methods of structure determination will also be studied. Winter term.
Prerequisite: Chem 304.
- Chem 464 ADVANCED INORGANIC CHEMISTRY (3-0) 3**
Atomic structure and periodic table, magnetic properties, modern bonding theories, chemistry of selected transition and non-transition elements, reaction mechanisms, solid state, organometallic and bioinorganic chemistry. Winter term.
Prerequisites: Chem 364, 358 or consent of instructor.
- Chem 465 INSTRUMENTAL ANALYTICAL CHEMISTRY (3-3) 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.
Prerequisites: Chem 300W, 360 and 365.
- Chem 496 SENIOR SEMINAR (1-0) 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. Fall term.
Prerequisite: Junior or senior standing and Chem 300W.

Chem 497 SENIOR SEMINAR (1-0) 1
Continuation of Chem 496 with emphasis upon presentation of senior thesis to the chemistry community. Winter term.
Prerequisite: Chem 496 or consent of instructor.

Chem 499 INDEPENDENT STUDY 1-3
Laboratory work on a current research problem under the direction of a faculty member. Students present oral and written papers based on this research. On demand.
Prerequisites: Junior or senior standing and consent of instructor.

Communications

(See Communications Option in English Section of this catalog on Page 65.)

Composition

COMP 150 READING AND WRITING IN COLLEGE (4-0) 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 contribution to intellectual dialogues.

Prerequisite: 12 hours of college credit. Must be taken in conjunction with LIB 150: Information Literacy.

LIB 150 INFORMATION LITERACY: INTRODUCTION TO RESEARCH METHODS (1-0) 1

This course examines the role information plays in daily life, how information is generated, and how it is organized. Emphasis will be on accessing and critically evaluating information, especially within the context of conducting research in an academic library.

Prerequisite: 12 hours of college credit. Must be taken in conjunction with Comp 150 Reading and Writing in College.

Computer Science Information Systems (CSIS)

INTRODUCTORY PROGRAMMING COURSE: Students with previous programming experience or a strong mathematical background should enroll in CSIS 110B (for computer science majors) or Engr 104B (for engineering students). Other students should select CSIS 106B (Visual Basic Programming).

CSIS 101 WORD PROCESSING (1-0) 1
An overview of word-processing concepts and equipment through classroom lectures. Hands-on learning using equipment in an open lab environment is emphasized. Basic text creation, editing, formatting, output, and document storage will be emphasized. Outside of class exercises using Microsoft Word computer software are a major part of the course. The class will also incorporate a brief presentation of the most commonly used Microsoft Windows commands. NOTE: This course lasts 1/3 (5 weeks) of the trimester.

CSIS 102 ELECTRONIC SPREADSHEETS (1-0) 1
A study of electronic spreadsheets through classroom lectures. Hands-on learning using equipment in an open lab atmosphere is emphasized. Worksheet creation, editing, formatting and printing, graphics and elementary macros will be featured. Outside of class exercises using Microsoft Excel computer software are a major part of the course. The class will also incorporate a brief presentation of the most commonly used Microsoft Windows commands. NOTE: This course lasts 1/3 (5 weeks) of a trimester.

CSIS 105 THE COMPUTER AS A TOOL (3-2) 4
Introduction to personal computer productivity tools using Microsoft (MS) Windows and the MS Office software suite (MS Word, MS Excel, MS Powerpoint, MS Access), creation of documents which require the integration of applications using multi-tasking and object linking and embedding, accessing information on the Internet and World Wide Web, prototyping user interfaces using MS Visual Basic. Fall Term.

Prerequisite: Computer Science major or consent of instructor.

CSIS 106B INTRODUCTION TO PROGRAMMING IN VISUAL BASIC (3-2) 4
Point-and-click methods will be combined with elementary programming concepts to develop Windows applications with a graphical user interface. Topics include input and output tools, control structures, debugging techniques, library functions, file manipulation, graphics programming. Fall and winter terms.

Prerequisite: Second-year high school algebra or Math 110B.

CSIS 110B INTRODUCTION TO PROGRAMMING (C + +) (3-2) 4
Introduction to programming in C + +, 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. Fall and winter terms.

Prerequisite: Math 110B or equivalent.

CSIS 150B INTRODUCTION TO PROGRAMMING (FORTRAN) (3-0) 3
Introduction to programming, using the FORTRAN language, problem-solving methods, algorithm development, program design, debugging, documentation, and computer solution to mathematical/ scientific problems. Fall and winter terms.

Prerequisite: Math 121B or equivalent.

CSIS 230 OBJECT-ORIENTED PROGRAMMING IN C + + (3-2) 4
Introduction to object-oriented software development. Topics include objects and classes, operator overloading, inheritance, pointers, files and streams, virtual functions, templates, applications to graphics programming. Group programming projects. Fall and winter terms.

Prerequisite: CSIS 110B.

CSIS 238 COMPUTER LOGIC DESIGN (3-3) 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. Same as Engr 238. Winter term of odd-numbered years.

Prerequisite: A course in computer programming.

CSIS 240 ADVANCED PROGRAMMING (COBOL) (3-2) 4
Advanced file organization and processing. Sort and merge features. Subprograms. Advanced table handling. Team programming of projects. Winter term.

Prerequisite: CSIS 110B.

CSIS 310 DATA STRUCTURES (3-2) 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. Winter term.

Prerequisite: CSIS 230 or Math 305B.

CSIS 320 ASSEMBLY LANGUAGE PROGRAMMING (3-2) 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. Fall term.

Prerequisite: CSIS 230 or 240.

CSIS 321 COMPUTER ARCHITECTURE AND ORGANIZATION (4-0) 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 Motorola families of microprocessors. Additional topics include Boolean Algebra and Digital Logic Circuits, RISC machines and Parallel Architectures. Winter term of even-numbered years.

Prerequisite: CSIS 230 or CSIS 240.

CSIS 330 WINDOWS PROGRAMMING IN C++ (3-2) 4

Creating Windows applications using object-oriented programming and predefined hierarchies of window classes. Topics include menus, dialog boxes, toolbars and toolboxes, bitmaps and Windows graphics, child windows and MDI applications, dynamic link libraries. Offered on demand.

Prerequisite: CSIS 230.

CSIS 340 COMPARATIVE PROGRAMMING LANGUAGES (4-0) 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 the Ada and/or Java programming languages. Fall term of odd-numbered years.

Prerequisite: CSIS 230 or CSIS 240.

CSIS 350 DATABASE MANAGEMENT SYSTEMS (4-0) 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, client/server databases, database administration and feature analysis of DBMS. Students will design and implement relational database applications. Fall term of even-numbered years.

Prerequisite: CSIS 230 or CSIS 240.

CSIS 360 SOFTWARE ENGINEERING I: SYSTEMS ANALYSIS (4-0) 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). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. Fall term of even-numbered years.

Prerequisite: CSIS 230 or CSIS 240 or consent of instructor.

GS 361W COMPUTERS AND HUMAN ISSUES (4-0) 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 which pertain to the previously mentioned topics. Students will become familiar with the various forms of writing used within the discipline of Computer Science. Hands-on experience with the Internet and related components is also an integral part of this course.

Prerequisite: Comp 150 and LIB 150.

CSIS 370 SOFTWARE ENGINEERING II: SYSTEMS DESIGN AND IMPLEMENTATION (4-0) 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). This is a project-intensive course. The student's performance in a team environment is a major component of the final grade. Winter term of odd-numbered years.

Prerequisite: CSIS 360 or consent of instructor.

CSIS 380 COMPUTER GRAPHICS (3-2) 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. Fall term of odd-numbered years.

Prerequisite: CSIS 230 or consent of instructor.

CSIS 420 MANAGEMENT INFORMATION SYSTEMS (4-0) 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. Fall and winter terms. **NOTE: This course does not count for credit toward the CSIS major.**

Prerequisite: BA 301D and BA 340.

CSIS 421 OPERATING SYSTEMS (3-2) 4

A study of basic concepts of operating system design. Topics include process management, memory management, file systems, protection and security, process coordination, interprocess communication, distributed systems. Programming assignments leading to the construction of a simple operating system. Winter term of odd-numbered years.

Prerequisite: CSIS 230 and CSIS 320.

CSIS 425 ACCOUNTING INFORMATION SYSTEMS (4-0) 4

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. Fall term of odd-numbered years. **NOTE: This course does not count for credit toward the CSIS major.**

Prerequisites: CSIS 420 and Acc 323W.

CSIS 430 DATA COMMUNICATIONS (3-2) 4

Analysis and design of distributed computing systems. Topics include communications media, transmission modes, protocols, data security and integrity, local and wide area networks. Laboratory project consisting of writing the software for a simple computer network. Winter term of even-numbered years.

Prerequisite: CSIS 230 and 320.

CSIS 450 PARALLEL PROGRAMMING (3-2) 4

Algorithm and program evaluation and development for computer architectures with multiple processors. Topics include multi-computer and multi-processor architectures and programming languages which support parallelism on such architectures. Fall term of even-numbered years.

Prerequisite: CSIS 310 or consent of instructor.

CSIS 495 INTERNSHIP IN COMPUTER SCIENCE (3-0) 3

Detailed experience working in an organization performing professional duties and responsibilities related to Computer Science. Specific requirements will vary according to the student's work assignment, but include, as a minimum, the keeping of a detailed journal regarding the student's work experience. A minimum of 140 hours (10 hours per week) of professional duties will be required. The student's performance will be evaluated by his/her supervisor in the organization as well as the Computer Science Coordinator. On demand.

Prerequisites: Junior or senior computer science major and approval by the Computer Science Coordinator.

CSIS 496 SENIOR SEMINAR (2-0) 2
Advanced study and research in selected topics. Winter term.
Prerequisite: Senior standing.

CSIS 499 INDEPENDENT STUDY 1-3
Individual study conducted under the supervision of a faculty member.

Cooperative Education

COOP ED 200 COOPERATIVE EDUCATION 1-10
A first-time cooperative education work experience by underclassmen.

COOP ED 300 COOPERATIVE EDUCATION 1-10
A cooperative education work experience by upperclassmen. A maximum number of credits is allowed toward a degree.

COOP ED 400 COOPERATIVE EDUCATION 1-10
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.

Economics

Econ 170D CURRENT ECONOMIC ISSUES (4-0) 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. Fall and winter terms.

Econ 201B PERSONAL FINANCE (3-0) 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. Offered on demand primarily in summer.

Econ 262 PRINCIPLES OF ECONOMICS - MICRO (2-0) 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.

Econ 266D PRINCIPLES OF ECONOMICS (4-0) 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. Fall, winter and summer terms.
Prerequisite: TRST 92 or better.

Econ 272 PRINCIPLES OF ECONOMICS - MACRO (2-0) 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 had micro. Consent of instructor.

Econ 310C ECONOMIC HISTORY OF THE UNITED STATES (4-0) 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. Fall term.

Econ 330 ECONOMICS OF AGRIBUSINESS (4-0) 4
An application of economic principles to problems in agriculture and the analysis of the agricultural enterprise as a business. Topics include supply and demand analysis, an analysis of agricultural production, industrial organization as it applies to agriculture, the use of management tools and decision making processes in farm and ranch management. Fall term of odd-numbered years.
Prerequisite: Econ 266D.

Econ 335D ENVIRONMENTAL ECONOMICS (4-0) 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 is also considered. Students will be expected to conduct an economic analysis of some proposed project/policy. Fall term.

Econ 361 MANAGERIAL ECONOMICS (4-0) 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. Fall and winter terms.
Prerequisites: BA 253B and Econ 266D.

Econ 369D PUBLIC FINANCE (4-0) 4
An analysis of the financing of federal, state and local units of government. Emphasis given to problems of taxation, expenditures and debt management. Winter term of even-numbered years.
Prerequisites: Junior standing.

Econ 370 TOPICS IN INTERNATIONAL ECONOMICS 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 266D or concurrent enrollment, or permission of instructor.

Econ 371D INTERNATIONAL ECONOMICS (4-0) 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. Winter term.
Prerequisites: Junior standing.

Econ 375D INDUSTRIAL ORGANIZATION (4-0) 4
An empirical, theoretical and legal analysis of economic concentration in the United States. Includes detail of market and aggregate concentration, alternative models of oligopoly behavior from economic theory and studies of cases in antitrust law. Fall term of even-numbered years.
Prerequisites: Junior standing.

Econ 381D ECONOMICS OF THE HEALTH CARE INDUSTRY (4-0) 4
A survey of the issues in the field of health care economics. Health insurance, health care costs, and the financing and delivery of personal medical services are studied as is the role of government in the provision of health and medical care. This course is intended for students interested in issues concerning the health care industry. Prior knowledge of economics is not required. Fall term of odd-numbered years.
Prerequisite: Junior standing or consent of instructor.

Econ 382 FINANCIAL INSTITUTIONS (4-0) 4
This course is the same as BA 382. See BA 382 for description. Credit cannot be awarded for both BA 382 and Econ 382.

Econ 383D ECONOMICS OF THE MASS MEDIA (4-0) 4

A course that explores the evolving market structure of the mass media industries. Topics include the globalization, integration, disintegration and consolidation of firms in the industry as well as public policy issues concerning the regulation and deregulation of the industry. This course is intended for students interested in the mass media industry. Prior knowledge of economics is not required. Winter term of even-numbered years.

Prerequisite: Junior standing or consent of instructor.

Econ 407C EVOLUTION OF ECONOMIC THOUGHT (4-0) 4

Traces the evolution of economic thought from the 1600s 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 only relevant to that period, and which have had enduring relevance. Winter term of odd-numbered years.

Prerequisites: Junior standing or consent of instructor.

Econ 410D ECONOMICS, A RADICAL PERSPECTIVE (4-0) 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.

Prerequisites: Junior standing or consent of instructor.

Econ 462 MICROECONOMICS THEORY (4-0) 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. Fall term.

Prerequisite: Junior standing.

Econ 472W MACROECONOMICS THEORY (4-0) 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. Winter term.

Prerequisites: Junior standing.

BA 499 INDEPENDENT STUDY 1-4

Individual research is conducted under the supervision of a faculty member. Fall and winter terms.

Prerequisite: Approval of School of Business Administration Dean.

Education

Ed 289 PRACTICUM IN COLLEGE TEACHING (2-6) 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: Consent of instructor.

Ed 307 INTRODUCTION, METHODS AND PRACTICUM IN EARLY CHILDHOOD (4-0) (4)

An overview of the field of early childhood education, historical influences and present trends in teaching methodologies. Designed to provide students with a working knowledge of early childhood curriculum (birth - age eight) with an emphasis on assessment, curriculum planning and teaching strategies. Practicum includes 25 hours of observations and aiding in preschool/kindergarten settings.

Prerequisite: Admission to the Teacher Education Program.

Ed 308 INTRODUCTION TO ELEMENTARY TEACHING METHODS (3-0) 3

This course is designed to introduce students to elementary school teaching. In this course students will explore the historical, philosophical and sociological development of elementary education. As a background for the methods courses for specific curriculum areas, students will study the teaching methods and materials that are common to good elementary teaching and write behavioral objectives, plan lessons and construct units of instruction. In addition, students will be introduced to the philosophical base of the Teacher Education Department, the Reflective Practitioner model, which focuses on the teacher as a decision maker who reflects on the teaching and learning in the classroom and makes adjustments as indicated. This course must be taken during the first term of enrollment in the Elementary Teacher Education Program. It may be taken concurrently with Ed 316 and with courses listed under "Auxiliary Requirements" for the Elementary Education Program. Those who have previously earned a degree may take this course concurrently with Ed 316, Ed 324, Ed 440 and courses listed under "Auxiliary Requirements" for the Elementary Education Program. Offered every term.

Prerequisite: Admission to the Teacher Education Program.

Ed 309 ORIENTATION TO SECONDARY TEACHING (3-2) 4

A course designed to orient the prospective teacher to the teaching profession by exploring philosophical and historical issues and trends. Initial training in planning, microteaching and critical reflection/analysis takes place. Through collaborative and cooperative learning groups, students study the complex variables in the field of education. A field experience (25 hours) provides the basis for analysis of teaching. Offered every term.

Prerequisite: Admission to the Teacher Education Program.

Ed 310 ADVANCED ELEMENTARY TEACHER AIDE PRACTICUM 1-3

A course that gives students additional practical experience in an elementary school setting. It features placement in local or nearby schools and the experience of a regular assignment in one teaching situation for the duration of the term - not to exceed 12 hours per week. Assignments are highly individualized and are monitored by public school personnel. Credit is based on the ratio of 1 credit per 35 contact hours. Fall and winter terms.

Prerequisite: Admission to the Teacher Education Program.

Ed 311 ADVANCED SECONDARY TEACHER AIDE PRACTICUM 1-3

A course that gives students additional practical experience in a secondary school setting. It features placement in local or nearby schools and the experience of regular assignment in one teaching situation for the duration of the term - not to exceed 12 hours per week. Assignments are highly individualized and are monitored by public school personnel. Credit is based on the ratio of 1 credit per 35 contact hours. Fall and winter terms.

Ed 312 MIDDLE SCHOOL TEACHER AIDE PRACTICUM 1-3

A course that gives students additional practical experience in a middle school setting. It features placement in local or nearby schools and the experience of regular assignment in one teaching situation for the duration of the term -- not to exceed 12 hours per week. Assignments are highly individualized and are monitored by public school personnel. Credit is based on the ratio of 1 credit per 35 contact hours. Fall and winter terms.

Prerequisite: Admission to Teacher Education Program.

- Ed 316 ELEMENTARY TEACHER AIDE PRACTICUM AND AV** 2
A course that gives students practical field experience in an elementary school setting as well as instruction in group process, analysis of classroom observations, and basic audio-visual equipment and materials. It features placement in local or nearby schools and the experience of a regular assignment in one teaching situation for the duration of the term. Assignments are highly individualized and are monitored by public school personnel. There are weekly discussion seminars and audio-visual instructional sessions. A minimum of 50 contact hours in the school is required. Fall and winter terms.
Prerequisite: Admission to the Teacher Education Program.
- Ed 324 METHODS AND PRACTICUM IN TEACHING EXCEPTIONAL ELEMENTARY CHILDREN** (4-0) 4
Recognizing that more than a knowledge base is required to effectively meet the needs of exceptional students, this course follows an integrated approach in which students will: 1) study the current literature and pedagogy which will permit them to be more sensitive to the needs of unique students, 2) be provided opportunities to develop preactive reflection skills as they perform cooperative learning assignments requiring individualization of instructional plans to meet the unique needs of students, and 3) be required to accumulate a minimum of 25 hours in a practicum experience with an exceptional student and to engage in post-active reflection. Offered every term.
Prerequisites: Admission to the Teacher Education Program and Ed 307 or Ed 308 or consent of instructor.
- Ed 325 EXCEPTIONAL STUDENTS: SECONDARY** (3-2) 4
This course provides through lecture and student research (1) a knowledge base for identifying and serving exceptional learners including those specified by P.L. 94-142, gifted/ talented (P.L. 95-561), and "at risk" students; (2) experience in applying a range of special education techniques, ideally with their exceptional client with whom they must complete 35 field hours; (3) class discussion (following activities) for reflection. Offered every term.
Prerequisites: Admission to the Teacher Education Program and Ed 309 or consent of instructor.
- Ed 327A1 CHILDREN'S LITERATURE** (3-0) 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 in the elementary school. Fall and winter terms.
- Ed 330 HUMAN RELATIONS IN THE CLASSROOM** (3-0) 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. Offered on demand.
- Ed 331E THE SOUTHWESTERN MINORITY CHILD IN THE CLASSROOM** (3-0) 3
Course is designed to provide a systematic analysis of the forces which 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. Fall term, summer on demand.
- Ed 332 MATERIALS AND METHODS OF BILINGUAL EDUCATION** (3-0) 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. Offered on demand.
Prerequisite: Ed 308 or consent of instructor.
- Ed 333 SOUTHWEST 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. Offered on demand.
- Ed 334 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE** (3-0) 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. Offered on demand.
Prerequisite: Engl 462A1 or permission of instructor.
- Ed 353 GROWTH AND DEVELOPMENT OF THE YOUNG CHILD** (2-0) 2
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. Offered on demand.
Prerequisites: Admission to the Teacher Education Program and should be taken concurrent with or prior to Ed 307.
- Ed 355 METHODS AND TECHNIQUES FOR TEACHING PRESCHOOL CHILDREN** (3-0) 3
Designed to acquaint the student with the preschool curricula and methods of teaching children ages 1-6. The student will have the opportunity to discover creative activities and their implementation in the classroom. An eclectic approach will be used. Offered on demand.
Prerequisite: Consent of instructor.
- Ed 357 LANGUAGE ARTS FOR THE YOUNG CHILD** (2-0) 2
A dynamic course offered to acquaint students with the latest theory and practices of emergent literacy programs. Emphasis is placed on a critical analysis of holistic language teaching strategies as well as traditional approaches; recent research in listening, speaking, reading and writing is considered. Students take an active role in the learning process through modeling various teaching strategies. Offered on demand.
Prerequisites: Admission to the Teacher Education Program, Ed 307 and Ed 353.
- Ed 359 CREATIVE ARTS FOR THE YOUNG CHILD** (2-0) 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. Offered on demand.
Prerequisites: Admission to the Teacher Education Program and Ed 307.
- Ed 361 METHODS OF TEACHING READING AND READING DIAGNOSIS** (4-0) 4
This course provides information on a wide variety of reading approaches, materials, and underlying philosophies to empower teachers with choices in strategies to meet individual literacy needs. In addition, students become familiar with the scope and sequence of reading skills and diagnostic processes for reflective identification of need and individually appropriate prescription. A field experience of 5 hours is required. Many activities are conducted as simulations. Fall and winter terms, summer on demand.
Prerequisites: Admission to the Teacher Education Program and Ed 307 or Ed 308.

**Ed 362 TEACHING READING IN THE
CONTENT AREAS: SECONDARY (3-0) 3**

Using a metacognitive approach, this course teaches the prospective teacher how to incorporate the teaching of reading skills into his/her respective content area. A synthesis of research on vocabulary development and comprehension strategies is presented for infusion into unit and lesson plans. A directed reading activity will be developed and implemented by each student for discussion and analysis. Offered every term.

Prerequisites: Admission to the Teacher Education Program and Ed 309.

Ed 387 PRACTICUM IN EXTRACURRICULAR ACTIVITIES 1-3

Students will be assigned to a supervisor with responsibility for an extracurricular activity. Examples include, but are not limited to, athletics, intramurals, drama, musicals and speech teams. The student receives 1 credit for every 25 hours of actual experience. In addition, a paper is required. Placement is contingent upon availability of assignment. A maximum of 3 credits is permitted. Fall and winter terms.

Prerequisite: Consent of instructor.

Ed 410 MATH IN THE ELEMENTARY SCHOOL (2-0) 2

This course focuses on the methods of teaching mathematics in the elementary school with emphasis on providing a foundation in math concepts and application of those concepts in practical situations. Students will plan and teach lessons in a local elementary school and reflect on their lessons in order to identify strengths and weaknesses. There will be a field experience of approximately 12½ hours. Fall and winter terms.

Prerequisites: Admission to the Teacher Education Program, Ed 308 and grade C or better in Math 215B.

**Ed 412 SCIENCE HEALTH AND EVALUATION
IN THE ELEMENTARY SCHOOL (4-0) 4**

A three part course in which students: 1) understand the need to teach elementary school science and health, gain confidence that they can change the status quo of current teaching practices and study accepted pedagogy, 2) engage in reflection in action, becoming proactive as they plan lessons and engage in structured planning interviews, interactive as they teach the lessons in elementary classrooms, and post-active as they engage in evaluative reflection of their teaching, and 3) acquire proficiency in developing procedures for assessing student learning and in interpreting and performing basic statistical procedures commonly utilized in reporting data about children. There will be a field experience of a minimum of 12½ hours. Fall and winter terms.

Prerequisites: Admission to the Teacher Education Program, Ed 308 and at least one natural science class and its associated lab.

Ed 415 METHODS OF TEACHING SOCIAL STUDIES (2-0) 2

The class is designed to give the elementary education licensing student an overview of the methods, materials functions, and purposes of social studies curricula in contemporary elementary schools. The class activities and instructional processes are based on the belief that social studies learning is an active and reflective process gained through experience. Fall and winter terms.

Prerequisites: Admission to the Teacher Education Program, Ed 308 and completion of 6 credits of social science.

Ed 420 INSTRUCTIONAL MEDIA (3-0) 3

A study of the importance of instructional media in the learning process; advanced principles underlying the selection and use of materials for instructional purposes; exploration of visual and auditory aids available to teachers in the elementary and secondary schools; and demonstration and achievement of skills in the use of instructional media in teaching. Offered on demand.

**Ed 433 LANGUAGE ARTS IN THE
ELEMENTARY SCHOOL (2-0) 2**

A critical analysis of the content areas in the elementary language arts program and an in-depth study of both traditional and whole language methods for empowering children with literacy skills. Areas of emphasis include creative writing, listening, processes in grammar and spelling, poetry, and drama. Students are given opportunities to model multiple teaching strategies. Fall and winter terms.

Prerequisites: Admission to the Teacher Education Program and Ed 308.

Ed 440 BEHAVIOR/CLASSROOM MANAGEMENT (3-0) 3

The purpose of this class is to acquaint the prospective elementary teacher with the relationships among classroom management, behavior management and effective teaching. Focus of study will be on general principles of classroom and behavior management, specific behavior management systems and theories and the ability to reflect on situations and children in order to make appropriate decisions about classroom and behavior management. Offered every term.

Prerequisites: Admission to the Teacher Education Program and Ed 308, or consent of instructor.

Ed 441 CLASSROOM MANAGEMENT (3-0) 3

Overview of alternative techniques for classroom management and discipline. Role-playing and simulations provide the avenue for analysis and critique whereby the preservice teacher begins to adapt specific strategies to his/her teaching style. Topics include behavior modification, assertive discipline, reality therapy, and legal issues/implications of classroom management. Offered every term.

Prerequisites: Admission to the Teacher Education Program and Ed 309, or consent of instructor.

**Ed 451 PRESCHOOL TEACHING PRACTICUM AND
MULTICULTURAL SEMINAR (2-2) 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. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, Ed 307, Ed 359 and consent of instructor.

Ed 453 COGNITIVE SKILLS (3-0) 3

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. Offered on demand.

Prerequisites: Admission to the Teacher Education Program, Ed 307, Ed 316 and Ed 353.

**Ed 456 EARLY CHILDHOOD ADMINISTRATION/
PARENT, COMMUNITY RELATIONS (3-0) 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, nutrition, 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. Offered on demand.

Prerequisites: Admission to the Teacher Education Program and should be taken the semester prior to student teaching or consent of instructor.

Ed 457 SECONDARY EDUCATION CORE OF SATELLITES 5

The CORE integrates content from eleven educational areas (satellites) for a comprehensive and cohesive establishment of a theoretical framework for teaching. Taken concurrently with Ed 458 and practica, the CORE provides the student with a foundation for effective practice.

Prerequisite: Admission to the Teacher Education Program.

Ed 458 SECONDARY EDUCATION SATELLITES RESEARCH 6

Student concurrently enrolled in Ed 457 will select a minimum of six of the CORE satellites to study in-depth through reading and research. Students can make selection of the satellite (topics) based on needs/aspirations within the field of education.

Prerequisite: Admission to the Teacher Education Program.

Ed 467 SECONDARY METHODS (2-2) 3

A course designed to give the prospective teacher a repertoire of methods to use in the secondary classroom. The knowledge base for a variety of teaching skills includes (1) curriculum planning for course outlines, unit and daily plans; (2) using resources such as school texts, curriculum guides, instructional software and instructional media; and (3) applying a variety of teaching strategies. The emphasis is on the teacher learning to reflectively choose the most appropriate strategy for a desired outcome. Includes a 40-hour practicum experience with a professional teacher in the student's subject area to provide opportunities to apply learning in an authentic environment. Offered every term.

Prerequisites: Admission to the Teacher Education Program and Ed 309.

Ed 470 MIDDLE SCHOOL HISTORY AND PHILOSOPHY (2-0) 2

This course will provide the prospective middle school teacher with knowledge about the philosophy, historical development and characteristics of the middle school. Offered on demand.

Prerequisites: Admission to the Teacher Education program, Ed 308/309, and Middle School Advisor approval.

Ed 471 MIDDLE SCHOOL ORGANIZATION, METHODS AND MATERIALS (4-0) 4

This course will provide the prospective middle school teacher with knowledge concerning various organizational schemes, methods, and materials found at the middle school level. Offered on demand.

Prerequisites: Admission to the Teacher Education program, Ed 308 or 309, and Middle School Advisor approval.

Ed 472 COMMUNICATION SKILLS FOR YOUNG ADOLESCENTS (3-0) 3

This course will provide the prospective middle school teacher with knowledge concerning the development of oral and written communication skills at the middle school level.

Prerequisites: Admission to the Teacher Education program, Ed 308/309, and Middle School Advisor approval.

Ed 473 PSYCHOLOGY OF YOUNG ADOLESCENTS (3-0) 3

The course will provide the prospective middle school teacher with knowledge about the characteristics and special needs of young adolescents.

Prerequisites: Admission to the Teacher Education program, Ed 308/309, and Middle School Advisor approval.

Ed 487 ADVANCED PRACTICUM IN EXTRACURRICULAR ACTIVITIES 1-3

Students will be assigned to a supervisor of an extracurricular activity. The student receives 1 credit for every 35 hours of actual experience. In addition, a research paper is required. Placement is contingent upon availability of assignment. A maximum of 3 credits is permitted. Fall and winter terms.

Prerequisites: Ed 387 and consent of instructor.

Ed 488 SEMINAR AND PRACTICUM IN COLLEGE TEACHING (1-2 or 1-4) 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 or 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. Fall and winter terms. Repeatable once with consent of instructor.

Ed 489 ADVANCED PRACTICUM IN COLLEGE TEACHING (2-6) 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 and consent of instructor.

Ed 490 ADVANCED TOPICS IN EDUCATION 1-3

Designed to accommodate the needs or requests of school systems, teachers or regular 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. Offered on demand.

Ed 492 LAB EXPERIENCE AND SEMINAR IN THE KINDERGARTEN/PRIMARY (1-2) SETTING (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.

Prerequisite: Admission to student teaching.

Ed 494 LABORATORY EXPERIENCE AND SEMINAR IN THE 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. Fall and winter terms.

Prerequisite: Admission to student teaching.

Ed 495 LABORATORY EXPERIENCE AND SEMINAR IN THE 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. Offered every term.

Prerequisite: Admission to student teaching.

Ed 497 LABORATORY EXPERIENCE AND SEMINAR IN THE MIDDLE SCHOOL 1-3

Includes observation, participation, teaching and allied activities under the direction of a selected regular teacher in a middle school in consultation with college consultants. Periodic seminars are offered. Offered every term.

Prerequisite: Admission to student teaching.

Ed 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Offered every term.

Prerequisites: Approval of instructor and department chair after submittal of formal request form available from the Teacher Education Department.

Engineering

- Engr 103 COMPUTER AIDED DRAFTING** (3-0) 3
A basic course in engineering graphics, including geometric constructions, orthographic projection, sectional views, dimensioning, layout, working drawings and elementary descriptive geometry. The primary drafting tool for this course will be the computer.
- Engr 104B COMPUTER PROGRAMMING FOR SCIENTISTS AND ENGINEERS** (3-0) 3
Introduction to programming, problem-solving methods, algorithm development, program design, debugging, documentation and computer solution to mathematical/engineering problems.
Prerequisite: Math 121B or equivalent.
- Engr 105 ENGINEERING PRINCIPLES** (3-0) 3
Solution of fundamental engineering and design problems using digital computation and graphical techniques. Topics include graphical and numerical mathematics, engineering statistics and computer graphics.
Prerequisites: Math 221B and Engr 104B.
- Engr 201 ELECTRIC NETWORKS I** (4-0) 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.
Prerequisite: Math 222.
- Engr 202 ELECTRIC NETWORKS II** (3-2) 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.
Prerequisite: Engr 201.
- Engr 205 SURVEYING I** (2-4) 4
Plane surveying methods in engineering: taping, leveling, traversing, topographic mapping, associate computation. Use and care of instruments. Sources and evaluation of errors.
Prerequisite: Math 121B or equivalent.
- Engr 217 STATICS** (3-0) 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.
Prerequisite: Math 221B.
- Engr 221 DYNAMICS** (3-0) 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.
Prerequisite: Engr 217.
- Engr 238 DIGITAL LOGIC DESIGN** (3-3) 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. Winter term of odd-numbered years.
Prerequisites: Engr 104B or equivalent math and programming experience.
- Engr 270 ENGINEERING THERMODYNAMICS** (3-0) 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.
Prerequisites: Phys 217B.

- Engr 305 SURVEYING II** (2-4) 4
Topics include the Public Land Survey system, coordinate systems and control surveys, photogrammetry, astronomic observations and route surveys.
Prerequisites: Engr 205 and Math 221B.

- Engr 317 MECHANICS OF MATERIALS** (3-0) 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.
Prerequisite: Engr 217.

- Engr 321 FLUID MECHANICS** (3-0) 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.
Prerequisite: Engr 221.

- Engr 499 INDEPENDENT STUDY** 1-3
Individual research is conducted under the supervision of a faculty member. Offered on demand.

English

All courses with an A or E suffix fulfill Group A (or E) distribution requirements. A and E courses are open to non-majors. English majors may take either one A or one E course for general distribution requirements, but not both.

- Engl 116A1 INTRODUCTION TO MASS COMMUNICATIONS** (3-0) 3
An examination of the development, organization and functions of the print and electronic media. Fall and winter terms.
- Engl 125A1 THE BIBLE AS LITERATURE** (3-0) 3
A study of the Hebrew Bible and the New Testament as literature, together with their historical, mythological and archaeological backgrounds. Winter term.
- Engl 173E 20TH CENTURY ASIAN AND AFRICAN LITERATURE** (3-0) 3
A study of selected 20th century novels in translation from Asia and Africa. Designed to give an appreciation and awareness of cultures other than EuroAmerican. Fall term.
- Engl 174A1 AFRICAN-AMERICAN LITERATURE** (3-0) 3
A study of selected 19th and 20th century works by African-American writers. Winter term.
- Engl 175A1 WOMEN'S LITERATURE** (3-0) 3
A study of literature by and about women. Winter term.
- Engl 215 NEWS MEDIA WRITING** (4-0) 4
This course will cover newswriting and reporting for both print and electronic media with emphasis on newsgathering, interviewing techniques and news story types. Fall and winter terms.
Prerequisites: Comp 150 and LIB 150, or consent of instructor.
- Engl 221A1 CLASSICAL LITERATURE** (3-0) 3
A study of ancient Greek and Roman literature. Winter term.
- Engl 230A1 SURVEY OF BRITISH LITERATURE** (4-0) 4
An overview of representative British writing from its beginnings to the present.
- Engl 240A1 SURVEY OF AMERICAN LITERATURE** (4-0) 4
An overview of representative American writing from its beginnings to the present. Fall and winter terms.

- Engl 250 PRACTICUM -- NEWSPAPER 1-6**
Directed experience for lower-division students in newspaper work on the *Independent* or other newspapers. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 250 is repeatable for a maximum of six credits. Fall and winter terms.
Prerequisites: Consent of instructor.
- Engl 251 PRACTICUM -- RADIO 1-6**
Directed experience for lower-division students in radio broadcasting on KDur or other radio stations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 251 is repeatable for a maximum of six credits. Fall and winter terms.
Prerequisites: Consent of instructor.
- Engl 252 PRACTICUM -- TV 1-4**
Directed experience for lower-division students working at a TV station or participating in FLC News. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 252 is repeatable for a maximum of six credits. Fall and winter terms.
Prerequisites: Consent of instructor.
- Engl 258 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 service for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 258 and 358 are each repeatable, but the maximum for all practicum courses is 18 credits.
Prerequisites: Consent of instructor.
- Engl 265A1 SEMANTICS (3-0) 3**
A study of the meanings of language, emphasizing its social and psychological uses and abuses. Fall and winter terms.
- Engl 268W READING TEXTS/Writing TEXTS (4-0) 4**
This course, which includes a brief introduction to western rhetorical traditions 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.
Prerequisite: Comp 150 and LIB 150 or consent of instructor.
- Engl 272A1 FANTASY AND SCIENCE FICTION (3-0) 3**
A study of fantasy and science fiction from the beginnings to the present day. On demand.
- Engl 280A1 LITERATURE OF THE SOUTHWEST (3-0) 3**
The American Southwest seen through fiction, poetry, biography, and other works by Anglos, Native Americans and Chicanos. Fall and winter terms.
- Engl 304 VIDEO PRODUCTION (3-0) 3**
An introduction to small-format video production. Fall and winter term.
Prerequisite: Consent of instructor.
- Engl 306 RADIO BROADCASTING (3-0) 3**
An introduction to radio broadcasting through its history, economics, organization and programming, with considerable emphasis on production. Fall and winter term.
Prerequisite: Consent of instructor.
- Engl 315 MEDIA WRITING: TOPICS (4-0) 4**
A course in advanced writing for media. Specific course content will vary. Students may repeat the course for credit provided that the subject is different on each occasion.
Fall and winter terms.
Prerequisite: Any Group W course or consent of instructor.
- Engl 317 MASS COMMUNICATIONS: TOPICS (3-0) 3**
This course will be an in-depth study of a selected topic in the mass media. Students may repeat the course for credit providing that the subject is different on each occasion. Fall and winter terms.
Prerequisite: Any Group W course or consent of instructor.
- Engl 320A1 THE NOVEL (4-0) 4**
An in-depth study of selected European, British and American novels. Fall and winter terms.
Prerequisite: Comp 150 and LIB 150.
- Engl 330A1 CONTINENTAL LITERATURE: TOPICS (3-0) 3**
An in-depth study of selected Biblical, classical or European texts. Fall term.
Prerequisites: Engl 230A1 or Engl 240A1.
- Engl 336 BRITISH RENAISSANCE LITERATURE: TOPICS (3-0) 3**
An in-depth study of selected British writings from about 1500 to 1660. The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Fall term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 337 18TH CENTURY BRITISH LITERATURE: TOPICS (3-0) 3**
An in-depth study of selected British writings from the "long" 18th century (about 1660 to 1798). The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Winter term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 338 BRITISH ROMANTIC LITERATURE: TOPICS (3-0) 3**
An in-depth study of selected British writings from about 1798 to 1832. The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Winter term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 339 BRITISH VICTORIAN LITERATURE: TOPICS (3-0) 3**
An in-depth study of selected British writings from about 1832 to 1901. The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Fall term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 345 AMERICAN LITERATURE: TOPICS I (3-0) 3**
An in-depth study of selected American writings from the beginnings to about 1865. The specific course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion. Fall term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 346 AMERICAN LITERATURE: TOPICS II (3-0) 3**
An in-depth study of selected American writings from 1865 to the present. The specific course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion. Winter term.
Prerequisite: Engl 230A1 or Engl 240A1.
- Engl 350 PRACTICUM -- NEWSPAPER 1-6**
Directed experience for upper-division students in newspaper work on the *Independent* or other newspapers. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 250 and 350 are each repeatable but the maximum for all practicum courses is 18 credits. Fall and winter terms.
Prerequisites: Engl 215, Engl 250, and consent of instructor.

Engl 351 PRACTICUM -- RADIO 1-6
Directed experience for upper-division students in radio broadcasting on KDUR or other radio stations. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 251 and 351 are each repeatable but the maximum for all practicum courses is 18 credits. Fall and winter terms.

Prerequisites: Engl 215, Engl 251, and consent of instructor.

Engl 352 PRACTICUM -- TV 1-4
Directed experience for upper-division students working at a TV station or participating in FLC News. Credit is based on the ratio of 30 hours of work for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 252 and 352 are each repeatable but the maximum for all practicum courses is 18 credits. Fall and winter terms.

Prerequisites: Engl 215, Engl 252, Engl 304, and 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 service for each credit earned. Students will be directed by a professor who will assign, monitor and evaluate their work. Engl 258 and 358 are each repeatable, but the maximum for all practicum courses is 18 credits.

Prerequisites: Consent of instructor.

Engl 363 ADVANCED COMPOSITION (4-0) 4
An advanced writing course with emphasis on the common forms of writing used by educated adults. Fall and winter terms.

Prerequisite: Comp 150 and LIB 150 and any Group W course.

Engl 366 TEACHING WRITING (4-0) 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 these philosophies. Students will be required to write, both formally and informally, for a variety of purposes in this course.

Prerequisites: Comp 150, LIB 150 and Engl 268W.

Engl 368 RHETORIC TOPICS (3-0) 3
An in-depth study of selected texts representing Western and/or non-Western rhetorical theory and practice, which will help students broaden their understanding of the presence of rhetoric in intellectual and institutional histories and as a shaping force in contemporary intellectual, academic, political, and professional domains. The specific course content will vary. Students may repeat the course for credit, provided that the subject is different on each occasion.

Prerequisites: Comp 150, LIB 150, and any Group W course.

Engl 370A1 HISTORY OF THE FILM (2-2) 3
A study of the film as an art form, with emphasis on American and European films. Students view at least one major film each week. Fall and winter terms.

Engl 378A1 LITERATURE FOR THE ADOLESCENT (3-0) 3
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. Fall term.

Engl 380E NATIVE AMERICAN LITERATURE: TOPICS (3-0) 3
A study of traditional and contemporary American Indian expression of thought as seen through oration, tales and legends, chants and songs, poetry, drama and the novel. Winter term.

Engl 385E CONTEMPORARY NATIVE AMERICAN NOVELISTS: TOPICS (3-0) 3
This course will study the contribution of Native American writers to contemporary American literature since 1960. Fall term.

Engl 386E NATIVE AMERICAN AUTOBIOGRAPHY: TOPICS (3-0) 3

This course has as its objective the study of the personal and historical experiences of Native American people through the examination of autobiographies. Winter term.

Engl 416A1 MEDIA THEORY AND CRITICISM (3-0) 3

This course is designed to acquaint students with the major contemporary theories of mass communication; students will also gain acquaintance with critical theory and texts, including semiotics, genre criticism and ideological criticism. Fall and winter terms.

Engl 420E WORLD LITERARY TRADITIONS: TOPICS (3-0) 3

An in-depth study of a specific non-western tradition in literature. Course content will vary. Students may repeat the course for credit providing the subject matter is different on each occasion. Winter term, alternate years.

Engl 423 GENRES: TOPICS (3-0) 3

An in-depth study of a specific genre of literature. Course content will vary. Students may repeat the course for credit providing the subject matter is different on each occasion. On demand.

Engl 430 MEDIEVAL LITERATURE AND CHAUCER: TOPICS (3-0) 3

An in-depth study of selected British writings from the beginnings to about 1500. The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Winter term, alternate years.

Prerequisite: Engl 230A1 or consent of instructor.

Engl 432A1 SHAKESPEARE (3-0) 3

A study of Shakespearean drama. Fall and winter terms.

Prerequisite: Engl 230A1 or consent of instructor.

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.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive portfolio, 80 hours of work toward graduation, and completed internship arrangements.

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.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive radio portfolio, 80 hours of work toward graduation, and completed internship arrangements.

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 usually based on achieving the goals in a written contact signed by the student, the supervisor, and the practicum instructor, on the journal, and on the analytic paper.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, 80 hours of work toward graduation, and completed internship arrangements.

Engl 453 INTERNSHIP IN COMMUNICATIONS 1-6

Directed experience in media writing/production which 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 analytic paper.

Prerequisites: Consent of instructor. Strongly recommended: substantial communications coursework, a competitive radio portfolio, 80 hours of work toward graduation, and completed internship arrangements.

Engl 461A1 HISTORY OF THE ENGLISH LANGUAGE (3-0) 3

A study of the development of English from Indo-European sources to the present. Winter term.

Engl 462A1 LINGUISTICS (3-0) 3

A scientific analysis of language, examining the nature and development of the unique human faculty with language, a faculty which depends on employing and combining a limited number of sounds in predictable ways to create a limitless number of words and sentences. While the focus of the course will be on English, those features and principles shared by all languages will be emphasized. Fall and winter terms.

Engl 463 LINGUISTIC ANALYSIS (1-0) 1

A course in sentence analysis, applying principles learned in English Linguistics. Must be taken concurrently with Engl 462A1. Fall and winter terms.

Engl 464A1 CREATIVE WRITING (4-0) 4

An advanced writing course with concentrations in poetry and short fiction. Students may repeat the course for credit, but may apply it only once towards the major. Fall and winter terms.

Prerequisites: Comp 150 and LIB 150, Engl 315 or Engl 363.

Engl 475 MODERN LITERATURE: TOPICS (3-0) 3

An in-depth study of selected European, British or American writings from about 1900 to 1945. The specific course content may vary. Students may repeat the course for credit, provided the subject is different on each occasion. Fall term.

Engl 476 CONTEMPORARY LITERATURE: TOPICS (3-0) 3

An in-depth study of selected European, British or American writings from about 1945 to the present. The specific course content will vary. Students may repeat the course for credit, provided the subject is different on each occasion. Winter term.

Engl 483 MATERIALS OF INSTRUCTION IN TEACHING HIGH SCHOOL ENGLISH (3-0) 3

Introduces and expands on materials for teaching literature, language and composition in the secondary schools. Includes principles for the selection of literature for high school pupils 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.

Prerequisite: Consent of instructor or completion of 90 credits.

Engl 496 SENIOR SEMINAR (2-0) 2; OR (3-0) 3

Advanced study and research in selected topics. Fall and winter terms.

Prerequisites: At least two overview courses and at least two topics courses and any Group W course, or consent of instructor.

Engl 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Fall and winter terms.

Prerequisite: Consent of instructor.

Environmental Policy Minor

(See Page 67.)

Exercise Science**ES 130 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1**

(Softball/Volleyball)

A course in motor skill development in the team activities of softball and volleyball. Fall and winter terms.

ES 131 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1

(Soccer/Basketball)

A course in motor skill development in the team activities of soccer and basketball. Fall and winter terms.

ES 132 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1

(Tumbling and Stunts/Fundamental Motor Skills)

A course designed to improve fundamental motor skills and to develop tumbling skills. Fall and winter terms.

ES 133 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1

(Badminton/Tennis)

A course for skill development in the racquet games of badminton and tennis. Fall and winter terms.

ES 134 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1

(Dance/Aquatics)

A course for skill development in the physical activities of dance and aquatics. Fall and winter terms.

ES 135 MOTOR SKILLS FOR PROFESSIONALS (0-2) 1

(Fitness/Outdoor Leisure Pursuits)

An introduction to and development of skills related to outdoor leisure and fitness activities. Fall and winter terms.

ES 150 SOCIOCULTURAL FOUNDATIONS OF HUMAN MOVEMENT (3-0) 3

An introductory study of the historical, cultural, sociological and philosophical aspects of exercise, sport and human movement. Fall and winter terms.

ES 165 COMMUNITY FIRST AID AND SAFETY (2-0) 2

Study and practice of American Red Cross first aid/CPR procedures in handling common injuries, accidents and medical emergencies. Fall and winter terms.

ES 185 INTRODUCTION TO COACHING - (ASEP) (2-0) 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 Management and Sport Specific Planning. The course covers what is important for a coach to know and presents the material in a manner that is of practical value to a coach. A series of videotapes helps create an atmosphere of discussion which 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. Winter term.

ES 186 PHYSICAL CONDITIONING (0-2) 1

This course introduces the student to method and techniques in the area of Physical Conditioning. It will emphasize three major areas: power development, speed enhancement and aerobic/anaerobic conditioning. Emphasis will be placed on the student's ability to instruct in these three areas. Fall term.

ES 224 BASIC PRINCIPLES OF ATHLETIC TRAINING (3-0) 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. Fall term.

- ES 225 TECHNIQUES OF COACHING FOOTBALL** (2-0) 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. Winter term.
- ES 226 TECHNIQUES OF COACHING VOLLEYBALL** (2-0) 2
The study of principles, methods, techniques and strategies involved in the coaching of volleyball. Winter term.
- ES 227 TECHNIQUES OF COACHING BASKETBALL** (2-0) 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. Fall term.
- ES 228 TECHNIQUES OF COACHING WRESTLING** (2-0) 2
The study of principles, methods, techniques and strategies involved in the coaching of wrestling. Fall term, alternate years.
- ES 229 TECHNIQUES OF COACHING TRACK AND FIELD** (2-0) 2
Designed to teach methods, techniques and principles of coaching all events in track and field at both the high school and college levels. Offered on demand.
- ES 230 TECHNIQUES OF COACHING SOFTBALL** (2-0) 2
Study of principles, methods, techniques and strategies involved in coaching of softball. Offered on demand.
- ES 231 TECHNIQUES OF COACHING SOCCER** (2-0) 2
The study of principles, methods, techniques and strategies involved in coaching soccer. Offered on demand.
- ES 233 OFFICIATING OF FOOTBALL** (1-0) 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. Fall term.
- ES 234 OFFICIATING OF VOLLEYBALL** (1-0) 1
Instruction in the rules and practice of the mechanics and skills of officiating volleyball at the high school and college levels. Fall term, alternate years.
- ES 235 OFFICIATING OF BASKETBALL** (1-0) 1
Designed to teach the student the rules, skills and mechanics of officiating basketball. Winter term.
- ES 236 OFFICIATING OF WRESTLING** (1-0) 1
Discussion and practice in the techniques of officiating wrestling, with an intensive study of the rules of both high school and college. Winter term, alternate years.
- ES 237 OFFICIATING OF SOFTBALL** (1-0) 1
Designed to provide students with the rules, skills and mechanics for umpiring in softball. Offered on demand.
- ES 238 OFFICIATING OF SOCCER** (1-0) 1
Designed to provide students with the rules, skills and mechanics for officiating soccer. Offered on demand.
- ES 243 PERSONAL HEALTH** (3-0) 3
A study of the basic facts related to the health of the individual with a strong emphasis on the social implication of these facts. Fall and winter terms.
- ES 260 LIFEGUARD TRAINING (AMERICAN RED CROSS)** (1-2) 2
Students will learn American Red Cross professional lifeguard skills and gain knowledge needed to prevent and respond to aquatic emergencies.
Prerequisite: Students must successfully pass a swimming skills test in order to remain enrolled in the course.
- ES 261 WATER SAFETY INSTRUCTOR** (1-2) 2
Water safety instructors course designed to train and certify (Red Cross) teachers of swimming. Fall term.
- ES 301WCURRENT ISSUES IN SPORT** (3-0) 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.
Prerequisites: Comp 150, LIB 150, junior standing.
- ES 302WISSUES IN HEALTH AND WELL-BEING** (3-0) 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.
Prerequisites: Comp 150, LIB 150, junior standing.
- ES 312 ADMINISTRATION OF INTRAMURAL PROGRAMS** (1-2) 2
The course will give the student information in all pertinent areas of intramural administration. In addition, each student will have "hands on" experience working in the Fort Lewis College Intramural and Recreation Program. Offered on demand.
- ES 324 ADVANCED TECHNIQUES OF ATHLETIC TRAINING** (2-2) 3
An in-depth practical course devoted to athletic injury evaluation. Each injury will be explored from the following viewpoints: prevention, etiology, pathology, recognition of clinical signs and symptoms and disposition. Winter term.
Prerequisite: ES 224 and Bio 121B.
- ES 330 ANATOMICAL KINESIOLOGY** (3-0) 3
An in-depth study of the basic body movements; osteology, applied myology, spatial relations of muscles to joints, aggregate muscle action, kinesiological constructs of summation of internal forces, aerodynamics and hydrodynamics, techniques for cinematographic and noncinematographic analysis of sport skills. Fall term.
Prerequisite: Bio 121B.
- ES 332 BIOMECHANICAL ANALYSIS AND APPLICATION** (2-0) 2
The study of methods, mechanics and analysis of movement as applied to the structure and function of the human organism. Winter term.
Prerequisite: ES 330.
- ES 340 MOTOR LEARNING AND CONTROL** (3-0) 3
Concepts involved in learning motor skills, the individual variables which affect this learning, and the practice and techniques for improving motor performance. Fall term.
Prerequisite: Psych 157D and junior standing.
- ES 350 MEASUREMENT AND EVALUATION** (3-0) 3
Basic statistical procedures necessary to analyze and interpret data collected from tests in exercise science. The selection and administration of testing instruments that measure objectives from the three domains of human performance. Winter term.
Prerequisite: Junior standing and consent of instructor.
- ES 353 NUTRITION FOR FITNESS AND SPORT** (2-0) 2
A study of the principles of nutrition as a science, with special emphasis on the importance of nutritional decisions for the physically active individual. Food choices, energy sources, nutritional analysis, body weight and composition, weight maintenance and optimal nutrition for physical performance are topics to be discussed. Winter term.
Prerequisite: Bio 121B or consent of instructor.

ES 354 ADAPTED EXERCISE (2-2) 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. Fall term.

ES 360 EXERCISE PHYSIOLOGY (4-0) 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 workouts as well as specific adaptations to exercise training. Where possible, the potential health-related aspects of exercise training will be explored. Winter term.

Prerequisite: Bio 121B.

ES 363 COMPUTER APPLICATIONS IN EXERCISE SCIENCE (2-2) 3

This course is designed to provide students with a general introduction to computer use in Exercise Science including hands-on experience. Credit cannot be awarded for CSIS 101 and CSIS 102, and ES 363. Winter term.

ES 370 METHODS OF TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS (3-0) 3

Emphasis will be upon values, principles, objectives, growth and development characteristics, curriculum construction, and general methods of organizing and teaching physical education in grades K-6. Fall and winter terms.

Prerequisite: Ed 307, Ed 308 or Ed 309 and junior standing.

ES 375 PSYCHOLOGY OF SPORT (2-0) 2

A study of various psychological phenomena that influence sport and exercise performance, *i.e.*, personality traits, anxiety, stress, motivation, aggression, group dynamics (cohesion). Winter term.

Prerequisite: Psych 157D.

ES 380 METHODS OF TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOLS (2-0) 2

A teacher candidate course designed to familiarize the student with methods and materials for successful teaching at the junior high and senior high levels. Emphasis is upon planning objectives, growth and development characteristics, curriculum construction, organization, and today's issues and current trends. Fall term.

Prerequisite: Ed 309 and junior standing.

ES 385 THERAPEUTIC MODALITIES (2-0) 2

The theoretical basis of therapeutic modalities will be explored as well as the clinical application of those modalities in the treatment of athletic injuries. Winter term, alternate years.

Prerequisite: ES 224, Bio 121B and ES 324.

ES 387 RECONDITIONING OF ATHLETIC INJURIES (3-0) 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. Winter term, alternate years.

Prerequisite: ES 224, Bio 121B and ES 324.

ES 450 INTERNSHIP IN FITNESS/LEISURE 3

Directed experiences performing professional duties in a fitness, health promotion or leisure organization setting. 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. Fall and winter terms.

Prerequisites: Senior standing and declared Fitness/Leisure Concentration. Must have approval of Department Chair.

ES 480 ADMINISTRATION OF PROGRAMS IN EXERCISE SCIENCE (3-0) 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. Fall term.

Prerequisite: Junior standing.

ES 496 SENIOR SEMINAR AND RESEARCH IN EXERCISE SCIENCE (2-0) 2

Discussions and inquiries dealing with contemporary issues, trends and problems in exercise science. An individual student research project is required. Fall and winter terms.

Prerequisite: ES 350 and senior standing.

ES 499 INDEPENDENT STUDY 1-3

Opportunity to investigate a significant problem through laboratory or library research under the supervision of a faculty member. Fall and winter terms.

Prerequisites: Senior standing and approval of department chair and instructor after presentation of a problem outline.

Forestry**For 218 FUNDAMENTALS OF ECOLOGY (3-3) 4**

A study of the fundamental relationships among organisms and their environments. One all-day Saturday field trip is required. Same as Bio 220. Fall and winter terms.

Prerequisites: Bio 206 or 207, Math 121B, and Math 201B or Psych 241B.

French**ML 147 ELEMENTARY FRENCH I (4-0) 4**

A course in grammar, prose composition, reading and conversation.

ML 148A1 ELEMENTARY FRENCH II (4-0) 4

Further study of French with emphasis on reading, composition and conversation.

Prerequisite: ML 147 or consent of instructor.

ML 247A1 INTERMEDIATE FRENCH I (3-0) 3

A course in second-year French with emphasis on grammar review, reading, writing and conversation.

Prerequisite: ML 148 or consent of instructor.

ML 248A1 INTERMEDIATE FRENCH II (3-0) 3

Continuation of ML 247.

Prerequisite: ML 247 or consent of instructor.

ML 301A1 FRENCH COMPOSITION AND SYNTAX (3-0) 3

Emphasis on advanced reading, grammar and composition.

Prerequisite: ML 248 or consent of instructor.

ML 303A1 FRENCH CONVERSATION (3-0) 3

Emphasis on speaking everyday French to increase students' abilities in maintaining ordinary conversations concerning current events and French Culture.

Prerequisite: ML 248 or consent of instructor.

ML 305A1 SURVEY OF FRENCH LITERATURE (3-0) 3

An historical and literary survey of the principal French works of literature from the Middle Ages to the 20th century.

Prerequisite: ML 248 or consent of instructor.

ML 308A1 TOPICS IN FRENCH LITERATURE (3-0) 3

Topics will vary; the course may be repeated for a different topic. Offered on demand.

Prerequisite: ML 248 or consent of instructor.

ML 309A1 BUSINESS FRENCH (3-0) 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.

Prerequisite: ML 301 or consent of instructor.

ML 405A1 SEMINAR IN FRENCH (3-0) 3

Advanced reading and research in selected areas of French Studies.

Prerequisite: ML 301 or consent of instructor.

General Science

GnSc 251B SURVEY OF CHEMISTRY AND BIOLOGY (3-2) 4

This course surveys the great ideas of modern biology and modern chemistry. The historical development of science is discussed along with the importance of the ideas in the context of our modern technological society. Modern topics at the interface of biology and chemistry are discussed with particular emphasis on biomedical issues. This course is especially useful for non-science students intending to seek teaching certification, or who wish to fulfill their science requirements with a moderately rigorous but brief survey of these two sciences. It would also be a fundamental introduction to biology and chemistry for students considering biomedical studies but who have insufficient preparation in basic biology and basic chemistry.

Prerequisite: Comp 150 and LIB 150.

General Studies

General Studies courses are focused on topics that are from the perspective of more than one discipline. These courses do not fit an academic area represented by a single department or program.

GENERAL STUDIES 101 and 102 Human Heritage I and II (4-0) 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. Students must complete both courses to fulfill designated distribution requirements (A1, C, and E). This course transfers to all Colorado colleges and universities in fulfillment of general education requirements.

GENERAL STUDIES 151 INTEGRATED LEARNING PROGRAM (14-11) 17

This course integrates the humanities, the social sciences, the sciences, and Comp 150 around broad topics of academic interest. The particular categories of general education courses that this course satisfies are given below. Particular topics may differ each year.

Group A: Language and the Arts

The Integrated Learning Program awards the equivalent of one course which provides an understanding of human expression through literature and language with special emphasis on developing aesthetic sensitivity and creativity. The works of literature considered will vary each year.

Group B: Quantitative and Natural Sciences

The Integrated Learning Program awards the equivalent of one course with lab which provides an understanding of the physical world and some of the formal, theoretical and empirical methods by which it is studied.

Group C: Foundations of Culture

The Integrated Learning Program awards the equivalent of one course which provides an understanding of fundamental values of world views through the study of human society's past, its formative ideas, and its alternative cultural expressions.

Group D: Social Structure and Behavior

The Integrated Learning Program awards the equivalent of one course which provides an understanding of human beings, both as individuals and as socially, politically and economically related groups.

Comp 150

The Integrated Learning Program awards academic credit for Comp 150 which is designed to teach library research methods as well as strengthen written and oral communication skills. Students write a major research paper which involves collecting, organizing and documenting library materials. The topics of these papers are also presented to the class in a formal seminar series. In addition, each student writes a shorter paper each week and is responsible for active participation in class discussions.

This course is designed for first-time freshmen and is available by application only. Application information may be obtained from: Cathy Simbeck, Program Director. Offered only in the fall.

GENERAL STUDIES 361 Computers and Human Issues (4-0) 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 which pertain to the previously mentioned topics. Students will become familiar with the various forms of writing used within the discipline of Computer Science. Hands-on experience with the Internet and related components is also an integral part of this course.

Prerequisite: Comp 150 and LIB 150.

GENERAL STUDIES 495 Environmental Colloquium (4-0) 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-conducted project provides a Service Learning opportunity for students.

Prerequisite: Junior standing, Psych 241B or Math 201B or BA 253B and consent of instructor.

GENERAL STUDIES 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 expressions of ideas.

Prerequisite: Senior standing.

Geography

Geog 200 INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (2-2) 3

An introduction to the basic concepts, technologies, and applications of geographic information systems.

Prerequisite: Sophomore standing.

Geog 271D WORLD GEOGRAPHY (3-0) 3

This course will introduce the student to the physical, cultural, political, psychological and resource factors of geography and how they affect the various peoples of the world. Fall, winter and first summer session.

Geog 320B NATURAL REGIONS OF NORTH AMERICA (3-0) 3
A survey of the origin and nature of the landscapes of North America. Emphasis is placed upon the relationships between natural resources, topography, geology, climate and soils. Map work is required.
Prerequisite: Geol 113B or 110B.

Geog 400 ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (2-6) 4
Advanced study of concepts and applications of geographic information systems.
Prerequisites: Geog 200, Engr 103, Engr 205, Engr 305, CSIS 110B or other programming course taken previously or concurrently.

Geog 495 GIS COLLOQUIUM (2-2) 3
A colloquium and seminar for students completing the GIS minor. Emphasis is on conducting and reporting on a GIS analysis in the student's area of expertise.
Prerequisite: Geog 400.

Geology

Geol 110B EARTH SCIENCE (3-0) 3
A review of the earth sciences, including geology, oceanography, meteorology and astronomy. Course intended for non-science majors. Fall and winter terms.

Geol 111B ANCIENT LIFE (3-0) 3
An examination of Earth's ancient life, its origin, the record in the rocks, and the processes and mechanisms that have transformed it through time. Winter term.

Geol 113B PHYSICAL GEOLOGY (3-3) 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. Fall, winter and summer terms.

Geol 114B HISTORICAL GEOLOGY (3-3) 4
The geologic history and development of life on Earth. Laboratory work on rocks, fossils and maps. Field trips. Winter term.
Prerequisite: Geol 113B.

Geol 120 GEOLOGIC FIELD EXCURSIONS (0-3) 1
This is a field lab. We will visit and discuss various geologic points of interest in the Durango and Four Corners region. There will be at least one weekend field trip. There is a field trip fee. Fall and winter terms.
Prerequisite: Geol 110B or Geol 113B or Geol 150B, or concurrent enrollment in one of these courses.

Geol 150B GEOLOGY OF THE SOUTHWEST (3-0) 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. Fall and winter terms.

Geol 180B INTRODUCTION TO OCEANOGRAPHY (3-0) 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.

Geol 202 GEOLOGIC METHODS (1-3) 2
An introduction to basic field and computer techniques used in geology. Fall term and first summer session.
Prerequisite: Geol 113B.

Geol 207 MINERALOGY (2-3) 3
The elements of crystallography and the classification and identification of minerals. Fall term.
Prerequisites: Geol 113B and completion of, or concurrent enrollment, in Chem 150B.

Geol 208 OPTICAL MINERALOGY (2-6) 4
Procedures for identification of minerals in thin section, with emphasis on the optical determination of rock-forming minerals. Winter term.
Prerequisite: Geol 207.

Geol 210 PETROLOGY (2-3) 3
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. Winter term.
Prerequisite: Geol 207.

Geol 323 GEOMORPHOLOGY (3-3) 4
The classification, description, nature, origin and development of present landforms and their relationships to underlying structures. Field trips. Fall term.
Prerequisite: Geol 202.

Geol 325 INTRODUCTION TO REMOTE SENSING (2-3) 3
Introduction to the principles of remote sensing. Includes the study of the electromagnetic spectrum and the geologic interpretation of visible, infrared and microwave imagery from airborne as well as spaceborne platforms. Winter term. Alternates with Geol 430.
Prerequisites: Geol 113B, Math 110B, and junior standing.

Geol 332 PLATE TECTONICS (3-0) 3
An introduction to crustal plates, their boundaries and their interactions given in terms of classic geological settings throughout the world. Fall term.
Prerequisites: Geol 113B, Math 121B.

Geol 333 INTRODUCTORY PALEONTOLOGY (3-3) 4
The systematic study of fossils, primarily invertebrate fossils, used in the identification and correlation of geologic formations. Winter term, alternate years.
Prerequisite: Geol 114B or consent of instructor.

Geol 337 STRUCTURAL GEOLOGY (3-3) 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. Fall term.
Prerequisites: Math 121B, Geol 113B and 202.

Geol 361 STRATIGRAPHY AND SEDIMENTATION (2-3) 3
Sediments and sedimentary rocks - their characteristics and classification; sedimentary processes, tectonics and sedimentation. Stratigraphy - its history, stratigraphic nomenclature, facies relationships and correlation. Fall term.
Prerequisites: Geol 207 and 210.

Geol 363 SEDIMENTARY PETROLOGY (3-2) 4
The origin, occurrence and classification of sedimentary rocks. Winter term. Alternates with Geol 364.
Prerequisites: Geol 208, 210 and 361.

Geol 364 IGNEOUS AND METAMORPHIC PETROLOGY (3-3) 4
The origin, occurrence, classification and petrography of igneous and metamorphic rocks. Winter term. Alternates with Geol 363.
Prerequisites: Geol 208 and 210.

Geol 371 INTRODUCTION TO GEOPHYSICS (3-3) 4
The fundamentals of geophysics, particularly gravitational, magnetic and seismic methods. Fall term. Alternates with Geol 332.
Prerequisites: Geol 113B, Math 121B.

Geol 380W TECHNICAL WRITING IN GEOLOGY (3-0) 3
Technical writing in the geological sciences will focus on the preparation of geological reports, analysis of data, resumes, proposals and bibliographic documentations. Winter term.
Prerequisites: Comp 150, LIB 150 and junior standing.

Geol 401B NATURAL RESOURCES AND THE ENVIRONMENT (3-0) 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. Fall term.

Prerequisite: Geol 113B or consent of instructor and junior standing.

Geol 405 GEOLOGIC DATA ANALYSIS AND MODELING BY COMPUTER (2-6) 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. Fall term.

Prerequisites: Geol 202 and junior or senior standing.

Geol 409 ECONOMIC MINERAL DEPOSITS (3-3) 4

Principles of ore genesis; geologic occurrence of uranium and metallic mineral deposits; mine tours. Winter term. Alternates with Geol 410.

Prerequisites: Geol 337, 364 and 420, or consent of instructor.

Geol 410 PETROLEUM GEOLOGY (2-3) 3

The origin, migration and entrapment of petroleum, and the methods employed in exploration and development of petroleum occurrences. Winter term. Alternates with Geol 409.

Prerequisites: Geol 337 and 363, or consent of instructor.

Geol 415 REGIONAL GEOLOGY OF THE UNITED STATES (3-0) 3

An examination of the stratigraphy, tectonic setting and geologic evolution of the major physiographic units of the United States. Fall term. Alternates with Geol 461.

Prerequisites: Geol 337 and 361.

Geol 420 INTRODUCTION TO GEOCHEMISTRY (3-0) 3

Behavior of the common rock-forming oxides in endogenic and exogenic processes; isotope geochemistry; geochemical exploration. Winter term. Alternates with Geol 435.

Prerequisites: Geol 207, 210 and 405, or consent of instructor.

Geol 430 ENGINEERING GEOLOGY (3-0) 3

Application of geological sciences to the location, design, construction, operation and maintenance of engineering works. Winter term. Alternates with Geol 325.

Prerequisites: Geol 210, Math 121B.

Geol 435 GROUNDWATER GEOLOGY (3-0) 3

The qualitative and quantitative aspects of the occurrence of water in the ground. Winter term. Alternates with Geol 420.

Prerequisite: Geol 361.

Geol 441 FIELD GEOLOGY 6

The fundamental procedures and practices in geologic mapping. Summer term.

Prerequisites: Geol 114B, 202, 210 and 337, or consent of instructor.

Geol 442 FIELD STUDIES 5

Intensive field work on various geological problems emphasizing interpretation of petrologic and structural relationships. Summer term.

Prerequisite: Senior standing in geology or consent of instructor.

Geol 461 DEPOSITIONAL SYSTEMS (2-3) 3

Modeling of sedimentary deposits with respect to time and the development of stratigraphic sequences. Fall term. Alternates with Geol 415.

Prerequisite: Geol 361.

Geol 496 SENIOR SEMINAR (2-0) 2

Emphasis is on the preparation, writing, and public presentation of the senior thesis project. Field research is commonly central to the project and must be initiated, in consultation with department faculty, prior to the course. One credit hour of independent study credit (Geol 499) will probably be necessary to prepare for the seminar. Career preparation activities are also part of the seminar. Fall and winter terms.

Prerequisite: Geol 380W, senior standing or consent of instructor.

Geol 499 INDEPENDENT STUDY 1-3

Individual research under the supervision of a faculty member. Offered on demand.

Prerequisite: Consent of department chair.

German**ML 123 ELEMENTARY GERMAN I (4-0) 4**

A course in grammar, pronunciation, reading and conversation. Fall term.

ML 124A1 ELEMENTARY GERMAN II (4-0) 4

Continuation of ML 123. Winter term.

Prerequisite: ML 123 or consent of instructor.

ML 128 CONVERSATION I - GERMAN (1-0) 1

Instruction in everyday conversation. Optional.

Prerequisite: Students must be enrolled in ML 123 Elementary German I, or obtain consent of instructor.

ML 129 CONVERSATION II - GERMAN (1-0) 1

Continuation of ML 128. Optional.

Prerequisite: Students must be enrolled in ML 124A1 Elementary German II, or obtain consent of instructor.

ML 223A1 INTERMEDIATE GERMAN I (3-0) 3

Second-year German with emphasis on reading, composition and conversation. Fall term.

Prerequisite: ML 124 or consent of instructor.

ML 224A1 INTERMEDIATE GERMAN II (3-0) 3

Continuation of ML 223. Winter term.

Prerequisite: ML 223 or consent of instructor.

ML 332C GERMAN CULTURE (3-0) 3

German Culture 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. The course is intended for all students interested in German culture, but particularly for those pursuing a minor or major in German Studies (Student-Constructed) or European History. The language of instruction is English, but students of German will read some texts in German.

Prerequisite: Sophomore standing.

ML 333A1 ADVANCED GERMAN COMPOSITION AND CONVERSATION (3-0) 3

Emphasis on advanced reading and conversation as well as on grammar and composition.

Prerequisite: ML 224 or consent of instructor.

ML 334A1 TOPICS IN GERMAN LITERATURE (3-0) 3

Topics will vary; may be repeated for a different topic. Offered on demand.

Prerequisite: ML 224 or consent of instructor.

ML 335A1 SEMINAR IN GERMAN (3-0) 3

Advanced reading and research in selected areas of German Studies.

Prerequisite: ML 224 or consent of instructor.

History

Hist 130C AMERICA SINCE 1945 (3-0) 3

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, environmentalism and other aspects of our cultural ferment.

Hist 140CE SURVEY OF AFRICAN HISTORY I (3-0) 3

An overview of important historical trends in Africa from A.D. 1000 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.

Hist 141CE SURVEY OF AFRICAN HISTORY II (3-0) 3

A treatment 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.

Hist 160C SURVEY OF WESTERN CIVILIZATION I (3-0) 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.

Hist 170CE SURVEY OF ASIAN CIVILIZATION: JAPAN (3-0) 3

An examination of traditional and modern Japan from the perspective of language, geography, philosophy/religion, literature, social structure and politics. Primary focus is on a general understanding of the nature of the culture and people and how the traditional period prepared Japan to become the chief competitor to the western industrial powers.

Hist 171CE SURVEY OF ASIAN CIVILIZATION: CHINA (3-0) 3

An examination of traditional and modern China from the perspective of language, geography, philosophy/religion, literature, social structure and politics. Primary focus is on a general understanding of the nature of the culture and people and how the traditional period prepared China for the 20th century and the radical changes under Communism.

Hist 181C U.S. ENVIRONMENTAL HISTORY (3-0) 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 past.

Hist 242CE ANCIENT NILE VALLEY (3-0) 3

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.

Hist 261C WESTERN CIVILIZATION II. 1350 TO PRESENT (3-0) 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 which are expressed in cultural and political revolutions, dominance of Europe and America in the world, and devastating war on a scale unknown before.

Hist 270CE COLONIAL LATIN AMERICA (3-0) 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.

Hist 271CE LATIN AMERICA SINCE INDEPENDENCE (3-0) 3

An examination of the major cultural and political developments in Latin America from the late 18th century unto 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 270CE.

Hist 280C SURVEY OF UNITED STATES HISTORY, 1600-1865 (3-0) 3

A survey of topics in American history from the founding of the first successful English colony at Jamestown to the end of the Civil War. The course will explore the settlement of the New World, the Revolution, the creation of the republic, the wonderful fads, reforms and cultural renaissance of the 1840s, and the conflicts that led to the Civil War.

Hist 281C SURVEY OF U. S. HISTORY, 1865 TO THE PRESENT (3-0) 3

An overview of American history from the age of enterprise to the present. The topics covered include the modernization of the economy, the shift in foreign policy from isolationism to globalism, the creation of the modern bureaucratic state, and the fads, enthusiasms and social movements that make the American past the fascinating subject that it is.

Hist 301C ALEXANDER TO CLEOPATRA (4-0) 4

The life and conquests of Alexander the Great (356-323 B.C.) will be studied in depth and the Hellenistic Age (323-30 B.C.) will be surveyed. The fall of Ptolemaic Egypt under Antony and Cleopatra to Caesar Augustus of Rome will be examined in detail.

Prerequisite: Hist 160C or consent of instructor.

Hist 305CE MESOPOTAMIAN MYTH/RELIGION (3-0) 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.

Prerequisite: Hist 160C or instructor's permission.

Hist 306C ANCIENT WOMEN'S RELIGIONS (4-0) 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.

Prerequisite: Hist 160C or consent of instructor.

Hist 308C RISE OF CHRISTIANITY (4-0) 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.

Hist 310C COLONIAL AMERICA TO 1763 (4-0) 4

This course focuses on Colonial America from European exploration to the end of the French and Indian War in 1763. The course will look at the ways in which Colonial American patterns of conflict and cohesion took shape, how those structures created a distinctly American people, and the enduring legacy that era bequeathed to Americans today.

Prerequisite: An American history survey course or consent of instructor.

Hist 312C THE AMERICAN REVOLUTIONARY ERA, 1763-1812 (4-0) 4

This course will explore the Era of the American Revolution and the New Nation in its world context. The course will investigate, for the various peoples of North America, the nature of the revolutionary movement, its political, economic, social, and cultural consequences, and its enduring legacy.

Prerequisite: An American history survey course or consent of instructor.

Hist 314C THE MARKET REVOLUTION, 1812-1850 (4-0) 4

This course will explore the period between the War of 1812 and 1850. The course will investigate why this was a period of transformation; its political, economic, social, cultural, and environmental consequences; and the era's enduring legacy.

Prerequisite: Hist 280C or consent of instructor.

Hist 316C CIVIL WAR AMERICA (4-0) 4

The 20 years that changed America, 1848-1868. The causes, campaigns, people, and significance of the Civil War era.

Prerequisite: An American history survey course or consent of instructor.

Hist 318C EMERGENCE OF MODERN AMERICA 1869-1900 (4-0) 4

America comes of age in the years 1869-1900. A look at the people and events that shaped the course of this change.

Prerequisite: An American history survey course or consent of instructor.

Hist 320C WESTERN AMERICAN HISTORY (4-0) 4

From the fur trappers to the cattle drives to the town boosters, the West of the 19th century. An American legend is born and rides in fact and fiction.

Prerequisite: An American history survey course and consent of instructor.

Hist 322C WESTERN AMERICAN MINING (3-0) 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.

Prerequisite: An American history survey course or consent of instructor.

Hist 324C COLORADO HISTORY (3-0) 3

Tracing the story of Colorado and its people from the Anasazi to the present day. Same as SW 481C.

Prerequisite: An American history survey course or consent of instructor.

Hist 326C BASEBALL AND THE AMERICAN DREAM (4-0) 4

Examines the impact of baseball on such varied topics as urbanization, literature, business, and racial relations. Baseball from the inside and outside.

Prerequisite: An American history survey course and consent of instructor.

Hist 330C AMERICA IN THE TWENTIES AND THIRTIES (4-0) 4

In these colorful and desperate decades, modern America was forged. Focussing on the conflicts between those who held fast to tradition and those who embraced the forces of modernization, the course explores the cultural tumult of the 20s, the forging of the second industrial revolution, the causes of the depression, life during these hard times, and the New Deal and its critics.

Prerequisite: Hist 281C or consent of instructor.

Hist 332C WOMEN IN AMERICAN HISTORY (4-0) 4

An analysis of women's experience from the colonial period to the present. Focussing 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.

Prerequisite: Hist 280C or Hist 281C or consent of instructor.

Hist 334 CE THE UNITED STATES AND VIETNAM (4-0) 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.

Prerequisite: Hist 130C or Hist 281C or consent of instructor.

Hist 336C CULTURE, IDEAS AND POLITICS IN 19TH CENTURY AMERICA (4-0) 4

This course explores selected visions of American culture and politics from the Revolution to 1900. Topics include the republican vision of the Founding Fathers; the making of the middle class mentality; the cultures of protest -- transcendentalism, utopianism, and urban progressivism -- African American political and pragmatism.

Prerequisite: Hist 280C or Hist 281C or consent of instructor.

Hist 337C CULTURAL AND INTELLECTUAL HISTORY OF AMERICA IN THE 20TH CENTURY (4-0) 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.

Prerequisite: Hist 281C or consent of instructor.

Hist 338C THE MODERN WOMEN'S MOVEMENT (4-0) 4

This course provides an in-depth exploration of the "second wave" of the women's movement, 1965 to present. We will study the reasons for the emergence of the "second wave," the lives and ideas of the women who shaped its agenda (Millett, Friedan, Rich, Daly, etc.), the institutionalization of women's studies, the practical work of modern feminists, and the contemporary debate on the future of feminism.

Prerequisite: Hist 281C, Hist 332C or consent of instructor.

Hist 341CE CONTEMPORARY AFRICA (4-0) 4

Trends and issues in African society, politics and economy since decolonialization (around 1960).

Prerequisite: One African survey course or consent of instructor.

Hist 342CE WEST AFRICA (4-0) 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, the environmental crisis.

Prerequisite: An African history survey course or consent of instructor.

Hist 344CE NORTHEAST AFRICA (4-0) 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, hydrogeopolitics, the roots of famine, social change, the Somali civil war.

Prerequisite: An African history survey course or consent of instructor.

Hist 346CE SOUTH AFRICA (4-0) 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.

Prerequisite: An African history survey course or consent of instructor.

Hist 348CE THE AFRICAN DIASPORA (4-0) 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.

Prerequisite: Hist 270CE or Hist 280C or consent of instructor.

Hist 349CE ISLAM IN HISTORY (4-0) 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.

Prerequisite: Hist 140CE or consent of instructor.

Hist 361CE RUSSIA IN REVOLUTION TO 1924 (4-0) 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.

Prerequisite: Hist 261C or consent of instructor.

Hist 362CE SOVIET UNION: STALIN TO GORBACHEV (4-0) 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.

Prerequisite: Hist 261C or consent of instructor.

Hist 363CE COLLAPSE OF THE SOVIET UNION (3-0) 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.

Prerequisite: Hist 261C or consent of instructor.

Hist 364C GERMANY, ROMAN TIMES TO 1919 (4-0) 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.

Prerequisite: Hist 160C or Hist 261C or consent of instructor.

Hist 365C GERMANY, 1919 TO PRESENT (4-0) 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.

Prerequisite: Hist 261C or consent of instructor.

Hist 366C HITLER AND THE HOLOCAUST (3-0) 3

A study of the rise of Hitler and Nazism to power in Germany and the racial ideas and politics of that regime.

Prerequisite: Hist 261C or consent of instructor.

Hist 367C MEDIEVAL ENGLAND AND IRELAND (4-0) 4

Beginning with a look at the Celtic culture and concluding with the demise of the Plantagenet queens and kings, this course investigates the individuals and issues that shaped the formation of one of the most powerful kingdoms in all of Medieval Europe.

Prerequisite: Hist 160C or consent of instructor.

Hist 368C MEDIEVAL WOMEN (4-0) 4

This course explores the frustrations as well as the power women had in Western Europe between the 6th and 14th centuries.

Prerequisite: Hist 160C or consent of instructor.

Hist 369C THE BLACK DEATH AND THE LATER MIDDLE AGES (4-0) 4

This course deals with the acceleration of the social, religious, political and economic transitions already taking place before the Black Death shocked Western Europe in the mid 14th century.

Prerequisite: Hist 160C or consent of instructor.

Hist 371CE HISTORY OF CENTRAL AMERICA (4-0) 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 fifteenth 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.

Prerequisite: A Latin American survey course or consent of instructor.

Hist 372CE UNITED STATES - LATIN AMERICAN RELATIONS (4-0) 4

An overview and analysis of the historical development 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.

Prerequisite: Hist 130C or Hist 271CE or consent of instructor.

Hist 373CE HISTORY OF MEXICO (4-0) 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 unto 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.

Prerequisite: Hist 270CE or Hist 271CE or consent of instructor.

Hist 396W PHILOSOPHY AND METHODS (4-0) 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 multi-disciplinary approaches to the past. Special emphasis is placed on developing skills necessary for becoming successful writers in the field. This course is required for all majors and should be taken in the second term of the sophomore year or during the junior year.

Prerequisite: A history survey course or consent of instructor.

Hist 440CE ADVANCED STUDIES IN AFRICAN HISTORY (4-0) 4

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.

Prerequisite: Hist 140C, Hist 141CE, and two 300-level history courses or consent of instructor.

Hist 446CE ANCIENT ISRAEL AND JUDAH (4-0) 4

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. Historiography, bibliography and research are included in preparation for Hist 496.

Prerequisite: Six hours of history at the 300-level or consent of instructor.

Hist 450 CE ADVANCED STUDIES IN EAST ASIAN HISTORY (4-0) 4

An examination of selected historical topics and issues pertaining to the Asian world. A senior-level research paper will be required.

Prerequisite: Two courses of East Asian history at the 300-level or consent of instructor.

(4-0) 4

European history. The
and research strategies.

Students will write a research paper. Topics will vary. Students may not take courses under this number designation more than once. Topics include The Reformation and Modern Europe.

Prerequisite: Two 300-level European history courses and consent of instructor.

**Hist 475CE ADVANCED STUDIES IN
LATIN AMERICAN HISTORY** (4-0) 4

A research seminar that examines selected topics in Latin American history. The seminar will explore historiographical issues and research strategies. Student will write a research paper. Students may not take courses under this number more than once.

Prerequisite: Two 300-level Latin American history courses or consent of instructor.

**Hist 485C ADVANCED STUDIES IN
UNITED STATES HISTORY** (4-0) 4

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. Topics will vary. Students may not take courses under this number more than once. Topics include America Since 1945, Western/Southwestern history and Colorado history.

Prerequisite: Two 300-level U.S. history courses or consent of instructor.

Hist 496 SENIOR RESEARCH SEMINAR (4-0) 4

A capstone course in the preparation of a senior history research paper with a public presentation and defense.

Prerequisites: Senior standing in history, or humanities with primary history concentration.

Hist 499 INDEPENDENT STUDY 1-3

Reading program or research project conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Approval of department chair and instructor.

Honors

HONORS 220 HONORS FORUM (1-0) 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. Works to be selected might include books, articles, theatre productions, or invited speakers. Faculty will help lead the discussions initially, but students will be expected to participate fully and eventually to carry on the discussions with minimal faculty supervision. There will be no lectures or exams, but students must keep and submit a journal detailing their understanding of, and responses to, assigned material. Grading is on a satisfactory/unsatisfactory basis. A satisfactory grade will require the student's active participation in accord with the intent of the course expressed above. It is the student's responsibility to contribute to discussion on the basis of a thorough preparation for the meetings. Honors 220 is for freshmen and sophomores. Course is repeatable for credit.

Prerequisites: Prior acceptance into Honors Program, Comp 150 and LIB 150 and consent of instructor.

HONORS 420 HONORS FORUM (1-0) 1

This course continues the series of Honors Forums required for John F. Reed Honors students. Juniors and seniors should sign up for Hon 420. In addition to keeping a journal, students must write a term paper synthesizing and developing their insights from the works studied during the term. Honors 420 students are expected to initiate topics and lead the ensuing discussions. Grading is on a satisfactory/unsatisfactory basis. A satisfactory grade will depend on superior performance on writing assignments and conscientious class participation. Course is repeatable for credit.

Prerequisites: Prior acceptance into Honors Program, Comp 150 and LIB 150 and consent of instructor.

HONORS 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.

Humanities
(See Page 75.)

International Studies Program
(See Page 76.)

Independent Study

INDEPENDENT STUDY 499 1-3

All major fields require either independent study or a seminar at the senior level. Independent study may be undertaken in a field other than the student's major. To do so, the student must have the approval of his or her advisor, department chair, the department chair in whose area the study will be made, and the professor who will supervise the study. However, independent study in the field outside the student's major cannot be substituted for the requirement of independent study or seminar in his or her major field.

Individualized Study

INDIVIDUALIZED STUDY 299 1-3

Independent study for lower-division or non-major students. Available in most disciplines.

Japanese

ML 135 INTRODUCTORY JAPANESE I (4-0) 4

An introduction to the Japanese language. Fall term.

ML 136A1 INTRODUCTORY JAPANESE II (4-0) 4

Continuation of ML 135. Winter term.

Prerequisite: ML 135 or consent of instructor.

Latin

ML 109 INTRODUCTORY LATIN I (4-0) 4

An introduction to the Latin language. Fall term.

ML 110A1 INTRODUCTORY LATIN II (4-0) 4

Continuation of ML 109. Winter term.

Prerequisite: ML 109 or equivalent.

Mathematics

Mathematics Examination and Placement Policy

All students must take the FLC Mathematics Placement Examination prior to enrolling at Fort Lewis College unless they have mathematics transfer credit from another college or university. The Mathematics Placement Examination is normally taken during the new-student orientation sessions. Students may also arrange to take, or retake, the Mathematics Placement Examination at any time by contacting the Learning Assistance Center, Room 280 Noble Hall, 970-247-7383.

Students must meet the prerequisites before enrolling in a mathematics class. There are no mathematics prerequisites for Math 130B or Math 215B.

Students will not receive credit for a mathematics course that is a prerequisite for a previously completed course. A prerequisite course in the Mathematics Department must be completed with a grade of C- or better, or the student must have the consent of the instructor to take the course.

Many of the courses listed below require the student to have a graphing calculator. If you have not purchased one, you should consult with an instructor before you do to determine which models are recommended.

Math 110B COLLEGE ALGEBRA (3-2) 4

This course covers the topics in algebra necessary for students who plan on enrolling in Math 210B, Calculus for Business and BioScience. Specific topics covered are: simplification of algebraic expressions, solutions of equations (including systems of linear equations) and inequalities, functions and relations including polynomial, root, rational, exponential and logarithmic and the conic sections. Graphing and analysis of the above functions and relations will be emphasized. NOTE: Credit toward graduation will be given for only one of Math 110B or Math 121B. Fall, winter and summer terms.

Prerequisite: Two years of algebra, one year of geometry and placement into Math 110B through the Mathematics Placement Examination or successful completion of TRST 92.

Math 121B PRE-CALCULUS (5-0) 5

This course covers the topics in algebra and trigonometry necessary for students who plan on enrolling in Math 221B, Calculus I. Specific topics covered are: simplification of algebraic expressions, solutions of equations (including systems of linear equations) and inequalities, functions and relations including polynomial, root, rational, exponential, logarithmic, trigonometric and inverse trigonometric functions, and the conic sections. Graphing and analysis of the above functions and relations will be emphasized. NOTE: Credit toward graduation will be given for only one of Math 110B or Math 121B. Fall, winter and summer.

Prerequisite: Two years of algebra, one year of geometry and placement into Math 121B through the Mathematics Placement Examination or successful completion of TRST 92.

Math 130B MATHEMATICS FOR LIBERAL ARTS (3-0) 3

This course contains an introductory survey of a variety of topics such as theory and history of mathematics, logic, problem solving, number theory, consumer applications and probability. Fall and winter terms.

Math 201B ELEMENTARY STATISTICS (4-0) 4

An introduction to basic ideas in statistics including descriptive statistics, measures of central tendency and dispersion, probability, sampling distributions, estimation, hypothesis testing, regression and correlation, and statistical software applications. Credit will be given for only one of BA 253B, Psych 241B or Math 201B. Fall and winter terms.

Prerequisite: Math 110B or consent of instructor.

Math 210B CALCULUS FOR BUSINESS AND THE BIOLOGICAL SCIENCES (4-0) 4

An introductory calculus course intended for students majoring in business administration, economics, or the biological sciences. Topics include limits, differential and integral calculus of one variable and an introduction to calculus of two variables. Fall and winter terms.

Prerequisite: Math 110B or placement into Math 210B through the Mathematics Placement Examination.

Math 215B MATHEMATICS FOR THE ELEMENTARY SCHOOL TEACHER I (2-2) 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. Fall and winter and summer terms.

Prerequisite: Must have sophomore standing.

Math 221B CALCULUS I (5-0) 5

Limits, continuity, derivatives and integrals of elementary functions, including polynomial, rational, root, logarithmic, exponential, trigonometric and inverse trigonometric functions. Applications of the derivative. Fall and winter terms.

Prerequisites: Math 121B or placement into Math 221B through the Mathematics Placement Examination.

Math 222 CALCULUS II (4-0) 4

A continuation of Math 221B. Techniques and applications of integration, introduction to differential equations and applications, sequences and series, applications using polar and parametric coordinate systems.

Prerequisite: Math 221B.

Math 223 CALCULUS III (4-0) 4

Vectors and multivariable calculus with applications. Fall and winter terms.

Prerequisite: Math 222.

Math 300W WRITING IN MATHEMATICS (3-0) 3

Writing and interpretation associated with problem statements and solutions, proof structures, modeling experiments, exposition and technical reports. Winter term.

Prerequisite: Math 221B, Comp 150, Lib 150.

Math 301B FOUNDATIONS FOR ADVANCED MATHEMATICS (3-0) 3

A study of axiomatic systems and the application of logic and set theory to various mathematical structures. This course is often taken concurrently with Math 222 or 223. Winter term.

Prerequisite: Math 221B.

Math 305B DISCRETE MATHEMATICAL STRUCTURES (3-2) 4

A study of sets, graphs, trees, combinatorics, probability, recursion, algorithms, mathematical reasoning and modeling computation with applications to computer science. Fall term.

Prerequisites: Math 221B or Math 210B, CSIS 110B, or consent of instructor.

Math 310 METHODS OF TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (3-0) 3

This class will explore elementary concepts in algebra and geometry, and will include methods for teaching these concepts at the secondary level. Students will make several short in-class presentations. Fall term.

Prerequisite: Ed 309.

Math 311B MATRICES AND LINEAR ALGEBRA (3-0) 3

Topics include matrices, determinants, similarity, eigenvalues, eigenspaces, vector spaces, linear transformations and applications. Fall term.

Prerequisite: Math 221B.

Math 315B REAL NUMBERS AND GEOMETRY (3-0) 3

This course is intended for those seeking teacher certification at the elementary or junior high school level. Topics will include real numbers, points, lines, planes, the continuum, the role of axioms and proof, and the basic concepts of Euclidean geometry. Fall term of odd-numbered years.

Prerequisite: Math 215B.

Math 316B TOPICS IN NUMBER THEORY (3-0) 3

Some of the topics to be presented in this course are: modular arithmetic, finite fields, basic prime number theorems, congruences, and combinations. Winter term of even-numbered years.

Prerequisite: Math 315B or 221B.

Math 318B MATHEMATICS FOR THE ELEMENTARY SCHOOL TEACHER II (2-2) 3

A continuation of M215B. Topics will include the use of calculators and computers, discrete math, data analysis, and an introduction to algebra. Winter term.

Prerequisite: Math 215B.

Math 320 NUMERICAL ANALYSIS (3-0) 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. Fall term of odd-numbered years.

Prerequisites: Math 222 and one of CSIS 150B or CSIS 110B.

Math 325B HISTORY OF MATHEMATICS (3-0) 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. Fall term of even-numbered years.

Prerequisite: Math 121B.

Math 327 DIFFERENTIAL EQUATIONS (3-0) 3

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. Winter term.

Prerequisite: Math 223.

Math 340B REGRESSION ANALYSIS (4-0) 4

Simple and multiple linear regression models. Topics include correlations, confounding and interaction, regression diagnostics, transformations, residual analysis, dummy variables, analysis of covariance, variable selection, use of statistical computer packages. Fall term of even-numbered years.

Prerequisites: Math 201B or BA253B or Psych 241B.

Math 342 MODERN COLLEGE GEOMETRY (3-0) 3

A course in college geometry which includes topics in Euclidean and non-Euclidean geometries. Winter term of odd-numbered years.

Prerequisite: Math 301B.

Math 350B DESIGN AND ANALYSIS OF EXPERIMENTS (4-0) 4

Single and multifactor experimental designs. Topics include analysis of variance, multiple comparisons, contrast, diagnostics, fixed, random and mixed effects models, designs with blocking and/or nesting, factorial designs, use of statistical computer packages. Winter term of odd-numbered years.

Prerequisite: Math 201B or BA 253B or Psych 241B.

Math 360B INTRODUCTION TO OPERATIONS RESEARCH (4-0) 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. Winter term of odd-numbered years. (This course is the same as BA 360B.)

Prerequisites: Math 210B or 221B.

Math 385 ALGEBRAIC STRUCTURES I (3-0) 3

A first course in abstract algebra which includes topics from group theory and ring theory. Applications will be discussed. Fall term of even-numbered years.

Prerequisite: Math 301B.

Math 386 ALGEBRAIC STRUCTURES II (3-0) 3

A continuation of Math 385. Topics include ring theory and field theory. Applications will be discussed. Winter term of odd-numbered years.

Prerequisite: Math 385.

Math 401 PROBABILITY AND STATISTICS I (3-0) 3

This course covers topics in distribution theory, conditional probability, independence, moment generating functions, limiting distributions, estimation procedures, and hypothesis testing. Fall term of odd-numbered years.

Prerequisites: Math 201B and completion of or concurrent enrollment in Math 222.

Math 402 PROBABILITY AND STATISTICS II (3-0) 3

A continuation of Math 401. Topics will include order statistics, multivariate distribution, nonparametric statistics, sufficient statistics, methods of multiple comparison, maximum likelihood procedures, and Bayesian procedures. Winter term of even-numbered years.

Prerequisite: Math 401.

Math 422 ADVANCED CALCULUS I (3-0) 3

Topics include structure of the real number system, elementary topology of the real numbers and of Euclidean spaces, general theory of functions emphasizing limits and continuity and resulting properties, general theory of the Riemann integral and resulting integration properties. Fall term of odd-numbered years.

Prerequisite: Math 301B, Math 223.

Math 423 ADVANCED CALCULUS II (3-0) 3

A continuation of Math 422. Topics will include the general theory of convergence, the general theory of differentiation of functions in Euclidean space, and the investigation of special integrals including the theorems of Green, Gauss and Stokes. Winter term of even-numbered years.

Prerequisite: Math 422.

Math 430 COMPLEX VARIABLES (3-0) 3

This course will cover topics in complex numbers, analytic functions, elementary functions and associated mappings, integrals, series, residues and poles, and conformal mappings. Fall term of even-numbered years.

Prerequisite: Math 223.

Math 496 MATHEMATICS SENIOR SEMINAR (3-0) 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 mathematicians. Winter term.

Prerequisites: Senior standing.

Math 497 MATHEMATICS EDUCATION SENIOR SEMINAR (3-0) 3

Advanced study and research in selected topics. Will include written and oral presentations of a project involving library research. Activities relate to careers in mathematics education. Winter term.

Prerequisites: Senior or junior standing and enrollment in a program of teacher certification.

Math 499 INDEPENDENT STUDY 1-3

Individual research conducted under the supervision of a faculty member. Written and oral presentation of research of research results required if this course is used to satisfy the Math 496/499 graduation requirement. On demand.

Prerequisite: Consent of instructor.

Music**Mu 100 MUSIC LITERATURE (0-1) .5**

Music Literature is a survey, through listening, of the standard works of the 18th, 19th and 20th centuries. Listening assignments will consist of recorded and live performances. Students will be required to attend various recitals and concerts throughout the term. Open to all students. Required for music majors every trimester of residency. Fall and winter terms.

Mu 101A2 THE MUSICAL EXPERIENCE (3-0) 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. Fall and winter terms.

Mu 103 INSTRUMENTAL, VOCAL AND PIANO CLASS**INSTRUCTION (Piano, Voice, Brass, Woodwinds, Percussion, Strings) (0-2) 1**

These classes are all designed to provide the student with the basic 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 I of the Piano Proficiency Requirement. Piano Class is offered fall terms, Voice Class is offered fall term; Brass, Woodwinds, Percussion & Strings Classes are offered alternate years.

Prerequisite: Consent of instructor.

Mu 104 PIANO CLASS INSTRUCTION II (0-2) 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 of A or B satisfies Part II of the Piano Proficiency Requirement. Winter term.

Prerequisite: Consent of instructor or MU 103 Piano.

Mu 105A2 CONCERT CHOIR (0-3) 1

Thorough study and performance each trimester of larger choral compositions. Open to all students. Course is repeatable. Fall and winter terms.

Mu 106 CHAMBER CHOIR (0-2) 1

An ensemble specializing in the performance of small scale choral works. By audition only. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in Concert Choir.

Mu 107 SPECIAL CHOIRS (0-2) 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 function and receive 1 credit during any one term. Open to all students. Course is repeatable. Fall and winter terms.

Mu 109, 209, 309, 409 APPLIED MUSIC (Piano, Voice, Brass, Woodwinds, Percussion, Strings) 1 or 2

Individual instruction scheduled, at the discretion of the instructor, either privately or in a small class. The course is open to all students. Each of these courses may be repeated once for credit. No student may register for more than two different applied lessons during any one trimester. 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.

Prerequisite: Placement audition, enrollment in Band, Concert Choir or Orchestra (the large ensemble appropriate to the applied area) and consent of instructor.

Mu 110A2 BAND (0-3) 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. Fall and winter terms.

Mu 111 BRASS ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 112 WOODWIND ENSEMBLE (0-2) 1

A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition and including the use of ancient instruments where applicable. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 113 STRING ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in symphony orchestra.

Mu 116 ACCOMPANYING (0-2) 1

A course designed to provide ensemble and accompanying experience for piano students.

Prerequisite: Consent of piano instructor.

Mu 117A2 SYMPHONY ORCHESTRA (0-3) 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. Fall and winter terms.

Mu 118 PERCUSSION ENSEMBLE (0-2) 1

A survey, through performance, of the literature written for this medium. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 119 JAZZ ENSEMBLE (0-2) 1

A survey, through performance, of the literature written for this medium. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 120A2 FUNDAMENTALS OF MUSIC (3-0) 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. Fall and winter terms.

Mu 128A2 THEORY AND MUSICIANSHIP I (5-0) 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. Fall term.

Mu 129A2 THEORY AND MUSICIANSHIP II (5-0) 5

Continuation of Theory and Musicianship I, expanded to include nonharmonic tones, dominant sevenths, secondary dominants and modulation. Formal analysis will include binary, ternary, rondo, theme and variations, chaconne/passacaglia, fugue and sonata-allegro. Winter term. Open to music majors and minors only. Others must have consent of instructor.

Prerequisite: Mu 128A2.

Mu 203 PIANO CLASS INSTRUCTION III (0-2) 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 of A or B satisfies Part III of the Piano Proficiency Requirement. Fall term.

Prerequisite: Consent of instructor or MU 104 Piano.

Mu 204 PIANO CLASS INSTRUCTION IV (0-2) 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: Sonatina, Op. 36 #1; Bach: Two Part Inventions, all scales, arpeggios and cadences. Successful completion with a grade of A or B satisfies Part IV of the Piano Proficiency Requirement. Winter term.

Prerequisite: Consent of instructor or MU 203 Piano.

Mu 207 PRACTICUM - ELEMENTARY COMPOSITION (0-2) 1

Individual instruction in composition scheduled, at the discretion of the instructor, either privately or in a small class. Students will work independently on assigned projects intended to explore a wide variety of compositional mediums and techniques. Course is repeatable for a maximum of 4 credits.

Prerequisite: Mu 129 or consent of instructor.

Mu 228 THEORY AND MUSICIANSHIP III (5-0) 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. Fall term.

Prerequisite: Mu 129A2.

Mu 229 THEORY AND MUSICIANSHIP IV (5-0) 5

Exploration of 20th century theoretical and compositional techniques. Examples will include derivatives from the end of the 19th century, nationalist influences, serial and aleatoric music, extended techniques, and electronic music. Open to music majors and minors only. Others must have consent of instructor. Winter term.

Prerequisite: Mu 228.

Mu 300 VOCAL ENSEMBLE (0-2) 1

A survey, through performance, of the literature for vocal ensemble. Course is repeatable. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in Concert Choir.

Mu 305A2 CONCERT CHOIR (0-3) 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. Fall and winter terms.

Mu 306 CHAMBER CHOIR (0-2) 1

An ensemble specializing in the performance of small scale choral works. Students are expected to take responsible roles in the ensemble such as: soloists, section leaders, conductor/managers, or accompanists. Course is repeatable. By audition only. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in Concert Choir.

Mu 310A2 BAND (0-3) 1

Designed to provide every student who plays a musical 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: soloists, section leaders, or conductors/managers. Course is repeatable. Fall and winter terms.

Mu 311 BRASS ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 312 WOODWIND ENSEMBLE (0-2) 1

A survey, through performance, of the literature composed for woodwind instruments from the Renaissance through avant-garde schools of composition and including 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 313 STRING ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in symphony orchestra.

Mu 314 METHODS AND PRINCIPLES OF TEACHING VOCAL MUSIC (3-0) 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. Fall term of alternate years.

Prerequisite: Admission to teacher education program or consent of instructor.

Mu 315 METHODS AND PRINCIPLES OF TEACHING INSTRUMENTAL MUSIC (3-0) 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. Fall term of alternate years.

Prerequisite: Admission to teacher education program or consent of instructor.

Mu 316 MUSIC IN THE ELEMENTARY SCHOOL (3-0) 3

A course designed for both classroom and 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. Winter term and one summer session.

Prerequisite: Admission to teacher education program or consent of instructor.

Mu 317A2 SYMPHONY ORCHESTRA (0-3) 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. 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. Fall and winter terms.

Mu 318 PERCUSSION ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 319 JAZZ ENSEMBLE (0-2) 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. Fall and winter terms.

Prerequisite: Consent of instructor and enrollment in band.

Mu 331A2 MUSIC HISTORY I (3-0) 3

Study of the history of music from classical antiquity to 1750. Fall term of alternate years.

Mu 332A2 MUSIC HISTORY II (3-0) 3

Study of the history of music from 1750 through the 20th century. Winter term of alternate years.

Mu 333 20TH CENTURY MUSIC (2-0) 2

A survey of styles and techniques of contemporary composers, including analysis of representative works.

Prerequisite: Mu 229 or consent of instructor.

Mu 337A2E SURVEY OF NON-WESTERN MUSIC (3-0) 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 (3-0) 3

A course in basic instrumental and choral conducting including baton technique, score reading, and various cueing and rhythmic aspects concerned with ensemble control. Fall term of alternate years.

Prerequisite: Piano Proficiency Requirement.

Mu 350 CONDUCTING II (3-0) 3

Continuation of Conducting I. Conducting techniques in addition to directing larger musical scores and advanced techniques. Winter term of alternate years.

Prerequisite: Mu 349.

Mu 407 PRACTICUM - ADVANCED COMPOSITION (0-2) 2

Like Mu 207, except students must demonstrate advanced proficiency. Students must receive faculty approval before registering for this course. Course is repeatable for a maximum of 8 credits.

Prerequisites: Music 229 and consent of instructor.

Mu 423 ORCHESTRATION (2-0) 2

A course designed to equip music majors with the skills and techniques of arranging for instrumental ensembles. Fall term of alternate years.

Prerequisites: Mu 229 and Piano Proficiency Requirement.

Mu 424 COMPOSITION (2-0) 2

This seminar will explore ideas, problems and possible solutions encountered by students working individually in a creative medium.

Prerequisite: Mu 229 or consent of instructor.

Mu 496 SENIOR SEMINAR (2-0) 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.

Prerequisites: Senior standing and consent of instructor.

Mu 499 INDEPENDENT STUDY 1-3

Individual research conducted under the supervision of a faculty member. Offered on demand.

Prerequisites: Approval of instructor and department chair.

Navajo

ML 100/SW 100 FUNDAMENTALS OF NAVAJO LANGUAGE I (3-0) 3

A course in the basic fundamentals of the Navajo language on the oral-aural approach. A native speaker is the instructor and much use is made of tapes, etc.

ML 101/SW 101A1 NAVAJO LANGUAGE II (3-0) 3

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language.

Prerequisite: ML 100/SW 101 or consent of instructor.

Philosophy

Phil 141C INTRODUCTION TO PHILOSOPHY (4-0) 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 of beauty, and the relation of knowledge to experience. Fall and winter terms.

Phil 171C CONTEMPORARY MORAL ISSUES (3-0) 3

An examination of the relation between different ethical points of view and the handling of the personal, social, political, ecological and global problems we face today. On demand.

Phil 244CHINESE PHILOSOPHY (3-0) 3

A study of Confucianism, Taoism, and Buddhism, with consideration of some dissenting views to these dominant schools of Chinese thought, such as Moism 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.

Prerequisite: Comp 150, Lib 150 or consent of instructor.

Phil 251C MORAL PHILOSOPHY (4-0) 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. Alternate winter terms.

Phil 252C ENVIRONMENTAL ETHICS (4-0) 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 conservation, and finally attempts to envision a philosophy of nature based on a "land ethic." Fall term.

Phil 261C PHILOSOPHY OF RELIGION (4-0) 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. Alternate fall terms.

Phil 271B LOGIC (4-0) 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 of inductive logic. Fall and winter terms.

Phil 274C EARLY FOUNDATIONS OF PHILOSOPHY (4-0) 4

An examination of the history of 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. Alternate fall terms.

Phil 305W WRITING PHILOSOPHY (4-0) 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, writing analyses of, and responses to, these readings, and presenting and defending a position on this topic in a carefully researched term paper.

Prerequisite: Phil 141C and Phil 271C, and Comp 150, LIB 150.

Phil 320INDIGENOUS WORLDVIEWS (4-0) 4

A survey of selected regional belief systems outside the major religious traditions treated in Phil 321E. 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. Alternate fall terms.

Phil 321EWORLD RELIGIONS (4-0) 4
A study of the nature and history of the major contemporary religions of the world. Summer and alternate fall terms.

Phil 328C PHILOSOPHY OF SCIENCE (4-0) 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. Alternate fall terms.
Prerequisite: 4 credits in philosophy other than Phil 271B or consent of instructor.

Phil 361C PHILOSOPHY OF ART (4-0) 4
An examination of the 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 the 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. Alternate winter terms.

Phil 363C PHILOSOPHY OF HISTORY AND CULTURE (4-0) 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. Alternate winter terms.
Prerequisite: 4 credits of philosophy other than Phil 271B or consent of instructor.

Phil 365C PHILOSOPHY AND FEMINISM (3-0) 3
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.
Prerequisite: Comp 150 and LIB 150 or consent of instructor.

Phil 371C THEORIES OF HUMAN NATURE (4-0) 4
An examination of various theories of the nature of human nature with readings from both classical and contemporary authors. Special attention will be given to how presuppositions about human nature underlie conceptions of knowledge and theories of education. Alternate winter terms.
Prerequisite: 4 credits of philosophy other than Phil 271B or consent of instructor.

Phil 375C MODERN FOUNDATIONS OF PHILOSOPHY (4-0) 4
An examination of the history of philosophy from the Renaissance through the 20th century. Continental Rationalism and British Empiricism are studied not only on their own terms but in relation to the Kantian synthesis. The Kantian philosophy, in turn, together with much 19th century thought, is shown to be a necessary background for understanding the major philosophical issues of the 20th century. Alternate winter terms.
Prerequisite: 4 credits of philosophy other than Phil 271B or consent of instructor.

Phil 377C CONTEMPORARY EUROPEAN PHILOSOPHY (4-0) 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. Winter term.
Prerequisite: 4 credits in philosophy other than Phil 271B or consent of instructor.

Phil 378C CONTEMPORARY ANGLO-AMERICAN PHILOSOPHY (4-0) 4
An examination of trends and issues in 20th century analytic philosophy. Alternate fall terms.
Prerequisite: 4 credits in philosophy other than Phil 271B or consent of instructor.

Phil 381C THEORIES OF REALITY (4-0) 4
An examination of traditional and contemporary attempts to understand the nature of reality. Alternate fall terms.
Prerequisite: 4 credits in philosophy other than Phil 271B or consent of instructor.

Phil 451 STUDIES IN GREAT PHILOSOPHERS (4-0) 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.
Prerequisite: 4 credits in philosophy other than Phil 271B or consent of instructor.

Phil 480 ECOLOGY AND MORALITY (4-0) 4
An in-depth focus on contemporary theories and practices, including myth and ritual, which 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.
Prerequisite: Phil 252C or consent of instructor.

Phil 496 SENIOR SEMINAR (4-0) 4
Advanced study and research in selected topics. Offered on demand.
Prerequisite: Senior standing and consent of instructor.

Phil 499 INDEPENDENT STUDY 1-4
Individual research is conducted under the supervision of a faculty member. Offered on demand.
Prerequisite: 12 credits in philosophy and approval of instructor.

Physical Education

PE PHYSICAL ACTIVITY (0-2) 1
Seasonal physical activities during each trimester for men or women. Activities include aquatics, dance, fitness, outdoor education, sport skills and varsity sports. Up to a maximum of six credits can be counted toward graduation. No physical activity at the same level can be repeated for credit. Offered each term.

Physical Science

PhySc 100BL PHYSICAL SCIENCE LABORATORY (0-2) 1
Work covers experiments in the fields of physics, chemistry, meteorology, geology and astronomy. Laboratory techniques and scientific processes are emphasized. Fall and winter terms.

PhySc 105B THE PHYSICAL SCIENCES (3-0) 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. Fall and winter terms.

PhySc 200BL INTRODUCTORY ASTRONOMY LABORATORY (0-2) 1
Work is aimed toward a greater appreciation of the universe through selected observational laboratory experiments in astronomy. Fall and winter terms.
Prerequisite: PhySc 205B taken concurrently (or GnSc 205B for those who may have already taken it).

PhySc 205B INTRODUCTORY ASTRONOMY FOR THE LIBERAL ARTS (3-0) 3
A course designed for students interested in elementary astronomy. A survey of modern observations of astronomy including the moon, planets, stars and their formations. A short history of astronomy is also included. Fall and winter terms.

Physics

Phys 201B COLLEGE PHYSICS (non Calculus) I (4-2) 5

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 217B will not receive credit toward graduation for Phys 201B. This course includes an introductory physics laboratory with experiments in mechanics, heat and sound. Fall and winter terms.

Prerequisites: High school algebra and trigonometry.

Phys 202B COLLEGE PHYSICS (non Calculus) II (4-2) 5

An introductory course in physics covering the basic concepts of electricity, magnetism and optics. Calculus is not used. Students who take Phys 218B will not receive credit toward graduation for Phys 202B. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics and magnetism. Fall and winter terms.

Prerequisite: Phys 201B.

Phys 217B PHYSICS FOR SCIENCE AND ENGINEERING I (4-2) 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 217B is required of engineering students and strongly recommended to all general science majors. This course includes an introductory physics laboratory with experiments in mechanics, heat and sound. Fall and winter terms.

Prerequisite: Math 221B.

Phys 218B PHYSICS FOR SCIENCE AND ENGINEERING II (4-2) 5

An introductory course in physics covering the basic concepts of electricity, magnetism and optics. Phys 218B is required of engineering students and strongly recommended to all general science majors. This course includes an introductory physics laboratory with experiments in optics, electricity, electronics and magnetism. Fall and winter terms.

Prerequisites: Phys 217B and Math 222B.

Phys 301INTRODUCTION TO ELECTRONICS (2-2) 3

A survey course of the theory and design of various electronic circuits and devices used in scientific instrumentation. Winter term, alternate years.

Prerequisite: Phys 218B.

Phys 320MODERN PHYSICS (3-0) 3

A study in the modern theories of atomic and nuclear physics that have developed since 1900. An introduction to special relativity and elementary quantum mechanics is included. Fall term, alternate years.

Prerequisites: Phys 202B or 218B and Math 222.

Phys 340OPTICS (3-3) 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. Fall term, alternate years.

Prerequisites: Phys 202B or 218B and Math 222.

Phys 354THEORETICAL MECHANICS (3-0) 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. Winter term, alternate years.

Prerequisites: Phys 202B or 218B and Math 223.

Phys 361 PRINCIPLES OF ELECTRICITY AND MAGNETISM (4-0) 4

The mathematical theory of static electric and magnetic fields, time-dependent fields and electromagnetic radiation. Offered on demand.

Prerequisites: Phys 202B or 218B with Math 327 taken concurrently.

Phys 370HEAT AND THERMODYNAMICS (3-0) 3

A study of classical thermodynamics which includes the first and second laws of thermodynamics and their application in energy conversion. On demand.

Prerequisites: Phys 201B or 217B and Math 223.

Phys 380ADVANCED PHYSICS LABORATORY I (0-3) 1

Work will stress experiments in modern physics with emphasis on electronic instrumentation and subsequent data analysis. Offered on demand.

Prerequisite: Phys 320 taken concurrently or equivalent.

Phys 381ADVANCED PHYSICS LABORATORY II (0-3) 1

Work will stress experiments in electricity and magnetism with emphasis on data collection and analysis. Offered on demand.

Prerequisite: Phys 361 or concurrent enrollment.

Phys 395W WRITING TECHNIQUES IN PHYSICS I (2-0) 2

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. Offered on demand.

Prerequisites: Junior standing or consent of instructor.

Phys 400SCIENCE AND HUMAN VALUES (2-0) 2

A course designed to investigate the interaction between science and the world community. The course will be conducted on a seminar basis with interdisciplinary instructors and/or invited instructors from other areas of the College. Scientific, social and human values will be discussed. Offered on demand.

Prerequisite: At least 6 credits in the natural sciences.

Phys 420QUANTUM MECHANICS I (3-0) 3

An introduction to Schrodinger's formulation of wave mechanics including potential wells, harmonic oscillators, and energy and momentum operators. Offered on demand.

Prerequisites: Phys 202B or 218B and Math 223.

Phys 421QUANTUM MECHANICS II (3-0) 3

A continuation of the study of quantum systems via approximation techniques, theory of many electron atoms, identical particles and spin. Offered on demand.

Prerequisite: Phys 420.

Phys 454ADVANCED 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. Offered on demand. This course may be repeated for credit if topics are different.

Prerequisite: Advanced standing in physics.

Phys 495W WRITING TECHNIQUES IN PHYSICS II (2-0) 2

Advanced study, research, and writing in selected topics. Designed to train students to write proposals, research reports, and semi-technical descriptions in the field of physics. A continuation of Physics 395W. Offered on demand.

Prerequisite: Phys 395W.

Phys 496SENIOR SEMINAR (2-0) 2

Advanced study and research in selected topics. Offered on demand.

Prerequisites: Senior standing and consent of instructor.

Phys 499INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Consent of instructor.

Political Science

PS 101D INTRODUCTION TO POLITICAL SCIENCE (3-0) 3

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. Fall and winter terms.

PS 110D U.S. NATIONAL GOVERNMENT (3-0) 3

A study of the policies, procedures, politics and problems of the U.S. national government. Fall and winter terms.

PS 120D STATE AND LOCAL GOVERNMENT (3-0) 3

A study of the history, nature, organization and operation of state and local government in the United States. Fall and winter terms.

PS 241D INTRODUCTION TO CRIMINAL JUSTICE SYSTEMS (4-0) 4

The nature of crime, the role of police, attorneys, courts and corrections in our criminal justice system.

PS 250WINTRODUCTION TO POLITICAL ANALYSIS (4-0) 4

Analysis of contemporary behavioral theories and research methods of politics and preparation for critical reading of professional literature. Writing intensive course. Fall term.

Prerequisite: PS 101D, Comp 150, LIB 150.

PS 280DE INTRODUCTION TO COMPARATIVE POLITICS (4-0) 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.

PS 300DE RELIGION AND POLITICS (3-0) 3

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.

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. Fall, winter and summer terms, on demand.

Prerequisites: Three courses selected from PS 101D, 110D, 120D, 241D, 310D, 330D and consent of instructor.

PS 305DE ENVIRONMENTAL POLITICS (3-0) 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 proposed solutions.

PS 310D AMERICAN POLITICAL BEHAVIOR (3-0) 3

An empirical inquiry into the dynamics of political activity in the United States, with emphasis on the electorate and the roles of political parties, the news media, public opinion and political interest groups. Fall term.

PS 320D INTERNATIONAL POLITICS (3-0) 3

An examination of the international struggle for power, with special emphasis on nationalism, economic objectives, armaments, multinational corporations and North-South issues.

Prerequisite: PS 101D.

PS 322DE INTERNATIONAL POLITICAL ECONOMY (3-0) 3

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 320D recommended.

PS 325DE MIDDLE EAST POLITICS (3-0) 3

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. Fall term.

PS 330D PUBLIC ADMINISTRATION (3-0) 3

Role of administration in government policymaking and implementation. Course uses case study method from a variety of policy areas. Winter term.

PS 337D U.S. FOREIGN POLICY (3-0) 3

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.

PS 340D CONSTITUTIONAL LAW: BILL OF RIGHTS (3-0) 3

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.

PS 341D CONSTITUTIONAL LAW: FEDERALISM AND THE SEPARATION OF POWERS (3-0) 3

Powers and limitations of the national judiciary, Congress, the presidency, war powers, and the federal relationship of national government and state governments.

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. Winter term.

Prerequisites: PS 101D, 110D, 120D, 310D and consent of instructor.

PS 360DE REVOLUTION AND THE MODERN WORLD (3-0) 3

Analyzes the origins, tactics, ideologies and results of leftist, bourgeois and rightist revolutionary movements, stressing a comparative and historical approach. First summer session.

PS 365DE WOMEN AND DEVELOPMENT (3-0) 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 280DE recommended.

PS 370DE LATIN-AMERICAN POLITICS (3-0) 3

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. Fall term.

PS 372DE AFRICAN POLITICS AND DEVELOPMENT (3-0) 3

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 280DE is recommended.

- PS 374DE PACIFIC RIM POLITICS AND ISSUES (3-0) 3**
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 280DE recommended.
- PS 380DE COMPARATIVE COMMUNIST SYSTEMS (3-0) 3**
A comparative study of the dynamics of communist systems focused on the Soviet Union and People'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.
- PS 385CD TWENTIETH-CENTURY SOCIALISM (3-0) 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.
- PS 386D ANCIENT POLITICAL THOUGHT (3-0) 3**
A study of western political thought from pre-Socratic Athens to the 16th century. Readings in the works of philosophers including Plato, Aristotle, Machiavelli and others. Fall term.
Prerequisite: PS 101D.
- PS 387D MODERN POLITICAL THOUGHT (3-0) 3**
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. Winter term.
Prerequisite: PS 386D.
- PS 400DE NATIVE AMERICAN LAW AND POLITICS (3-0) 3**
A study of political and legal issues which involve American Indians, both from a historical and contemporary perspective.
- PS 421D THE AMERICAN PRESIDENCY (3-0) 3**
Study of the American presidency, including historical development and current structure, organization, behavior, processes and policy implications; examination of executive bureaucracy. Winter term, even years.
- PS 422D LEGISLATIVE PROCESS (3-0) 3**
Study of American legislatures at the federal and state level including structural, behavioral and policy implications of the legislative process in contemporary American government. Winter term, odd years.
- PS 423 LAW AND THE JUDICIAL PROCESS (3-0) 3**
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.
- PS 425D PRISONS AND PRISONERS (3-0) 3**
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.
Prerequisite: PS 241D.
- 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. Fall, winter and summer terms, on demand.
Prerequisites: PS 101D, 110D, 422D and consent of instructor.

- PS 480CD CONTEMPORARY POLITICAL THOUGHT (3-0) 3**
An examination of the philosophical and political origins of the political formation of the self, interactions 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 387D recommended.
- PS 496 SENIOR SEMINAR (3-0) 3**
Advanced study and research in selected topics.
Prerequisites: PS 250W, senior standing and consent of instructor. PS 387D.

- PS 499 INDEPENDENT STUDY 1-3**
Individual research is conducted under the supervision of a faculty member. Offered on demand.
Prerequisite: Approval of the instructor and the department chair.

Psychology

- Psych 157D INTRODUCTION TO PSYCHOLOGY (3-0) 3**
An introduction to the scientific study of behavior, including the concepts of learning, motivation, perception, emotions, personality and sexuality. Abnormal, social, developmental and physiological psychology will also be discussed.

- Psych 218 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION (2-0) 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 last 7 weeks (½) of the trimester.
Prerequisite: Psych 157D.

- Psych 233D PERSONALITY (4-0) 4**
This course provides an introduction to the major theories of personality, including psychoanalytic, 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.
Prerequisite: Psych 157D.

- Psych 241B BASIC STATISTICS FOR PSYCHOLOGISTS (4-0) 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. Same as Math 201B and BA 253B.

- Psych 254D LIFE SPAN HUMAN DEVELOPMENT (4-0) 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.
Prerequisite: Psych 157D.

- Psych 270 PSYCHOLOGY OF GENDER (4-0) 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.
Prerequisite: Psych 157D.

Psych 296W PSYCHOLOGICAL RESEARCH METHODS (3-2) 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.

Prerequisites: Comp 150, LIB 150, Psych 157D and Psych 241B.

Psych 300 METHODS OF INQUIRY (4-0) 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.

Prerequisite: Psych 157D and 296W.

Psych 305D PSYCHOLOGY OF INTUITION (4-0) 4

Students will study and write about the psychology and philosophy of intuition. This writing intensive interdisciplinary course applies the methods of psychology, especially cognitive science, and of philosophy to intuition, especially that of writers.

Prerequisite: Psych 157D.

Psych 325 GROUP DYNAMICS (4-0) 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.

Prerequisites: Psych 157D, Comp 150 and instructor permission.

Psych 327 PHYSIOLOGICAL PSYCHOLOGY (3-2) 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.

Prerequisite: Psych 296W and Psych 300.

Psych 328D INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY (4-0) 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.

Prerequisite: Comp 150, LIB 150 and Psych 157D.

Psych 330 ANIMAL BEHAVIOR (2-4) 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.

Prerequisite: Psych 296W and Psych 300.

Psych 333 EXPRESSIVE ARTS THERAPY IN THE COMMUNITY (2-0) 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.

Prerequisite: Consent of instructor.

Psych 340D CREATIVITY (4-0) 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.

Prerequisites: Comp 150, LIB 150 and consent of instructor.

Psych 342 PSYCHOLOGICAL TESTING (4-0) 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.

Prerequisite: Psych 241B and Psych 233D.

Psych 354D TOPICS IN CHILD PSYCHOLOGY (4-0) 4

This course offers a more concentrated focus on child psychology than Psych 254D (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. The course explores how factors such as genetics, culture and parenting influence various dimensions of infancy, childhood and adolescence.

Prerequisite: Psych 254D.

Psych 365 PSYCHOLOGY OF LEARNING (3-2) 4

The conditions of learning in animals and humans as found in the experimental literature. Usually offered in the fall term.

Prerequisite: Psych 296W.

Psych 372D LANGUAGE, MIND AND BRAIN (4-0) 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 comprehension by computers, language disorders caused by brain damage, and hemispheric differences in language processing.

Prerequisites: Comp 150, LIB 150 and Psych 157D.

Psych 375D MULTICULTURAL PSYCHOLOGY (4-0) 4

This course will present an overview of multicultural viewpoints in clinical and research psychology. Predominant western European 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.

Prerequisites: Comp 150, LIB 150 and Psych 157D.

Psych 383D HISTORY OF PSYCHOLOGY (4-0) 4

A study of the philosophical and scientific antecedents of modern psychology together with a review of the classical psychological systems and theories from ancient times to the present.

Prerequisite: Psych 157D and Comp 150, LIB 150.

Psych 387 ABNORMAL PSYCHOLOGY (4-0) 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.

Prerequisite: Psych 233D, Psych 296W and Psych 300.

Psych 392 FOUNDATIONS OF CLINICAL PSYCHOLOGY (4-0) 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. Fall term. This course does not count for general distribution.

Prerequisites: Psych 157D, Psych 233D, Psych 387, junior standing and consent of instructor.

Psych 393D HEALTH PSYCHOLOGY (4-0) 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, and the identification of etiologic and diagnostic correlates of health, illness and related dysfunction. The topics include psychosomatic illness, the family and health, well being, the training of health care professionals and sport psychology.

Prerequisites: Psych 157D, Comp 150, LIB 150, junior or senior standing, and consent of instructor.

Psych 394 FIELD SCHOOL IN CLINICAL PSYCHOLOGY 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. First summer term.

Prerequisite: Psych 387 and consent of instructor. Recommended, Psych 342.

Psych 395 SEMINAR + PRACTICUM IN CLINICAL PSYCHOLOGY (4-0) 4

The course provides an opportunity for students to engage in a supervised practicum in cooperation with an area health or human service organization. Weekly seminars will deal with professional issues and ethics common to all settings.

Prerequisites: Psych 375, Psych 392 or Psych 393, Psych 420, and consent of instructor.

Psych 396 ADVANCED RESEARCH METHODS (4-0) 4

An advanced course in the methods and tools of research including historical, case study, descriptive, field, observational, experimental, and quasi-experimental designs. Emphasis is on the design of psychological research, data collection techniques, statistical analysis and interpretation.

Prerequisite: Psych 296W and Psych 300.

Psych 420 COUNSELING SKILLS (4-0) 4

This course develops various counseling skills, processes, and abilities in students through academic and applied instruction.

Prerequisites: Psych 233, Psych 387, Comp 150, LIB 150 and consent of the instructor.

Psych 425 SOCIAL PSYCHOLOGY (3-2) 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.

Prerequisite: Psych 296W.

Psych 426 SENSATION AND PERCEPTION (3-2) 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. Usually offered in the fall term.

Prerequisite: Psych 296W.

Psych 441 HUMAN MEMORY AND COGNITION (3-2) 4

An overview of attention, memory, mental imagery, general knowledge, concept formation, problem-solving, language, intelligence, and other high level mental processes. The laboratory is designed to give students experience in research using standard cognitive psychology paradigms. Usually offered in the winter term.

Prerequisite: Psych 296W.

Psych 496 SENIOR SEMINAR (4-0) 4

Advanced study and research in selected topics. Fall and winter terms.

Prerequisites: Psych 296W, Psych 300 and consent of instructor.

Psych 498 THESIS 1-6

Each student will be involved in the development and completion of 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 required prior to receiving professor's consent. This course can be repeated for a maximum of six credit hours.

Prerequisites: Psych 296W, 300, senior standing and consent of instructor.

Psych 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Consent of instructor.

Religious Studies Minor

(See Page 86.)

Sociology/Human Services**Soc 100D SOCIAL ISSUES (4-0) 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. Topics for study may include the workplace, the environment, inequality, sexism, racism, health care, criminal justice, education, alienation and social services. Fall and winter terms, freshman year.

Soc 200D SOCIAL CHANGE AND HUMAN SERVICES (4-0) 4

This course is designed to facilitate critical understanding of, and commitment to, processes of social change in modern society. Using historical and theoretical analysis of social change efforts, students are encouraged to embrace and develop models of change that take seriously the personal and social dimensions of human struggle. The role and responsibility of human service agencies in social change/community development is also considered. Field work is required.

Soc 210W SOCIAL INQUIRY AND RESEARCH METHODS (4-0) 4

An introduction to quantitative methods used in social science this course serves as the Writing Course 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.

Soc 250CE SOCIAL ISSUES IN CONTEMPORARY NATIVE SOCIETIES (4-0) 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.

Soc 275D FAMILIES, MARRIAGES AND OTHER SEX-ROLE SYSTEMS (4-0) 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. Taught every other year.

Soc 279W ETHNICITY, GENDER AND CLASS IN THE SOUTHWEST (4-0) 4

A descriptive analytic inquiry into the historical, social and economic position of the Hispanics, Native Americans and women of the Southwest. This course serves as the Writing Course for Humanities majors seeking a primary concentration in Sociology/Human Services. Fall term.

Prerequisite: Comp 150 and LIB 150.

Soc 280D POPULAR CULTURE AND MASS COMMUNICATION (4-0) 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. Alternate fall terms.

Soc 300D THEORIES OF SOCIAL AND PERSONAL LIFE (4-0) 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 theory will be evaluated.

Soc 301DE COMPARATIVE SOCIETIES (4-0) 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.

Soc 310D ECOLOGY AND SOCIETY (4-0) 4

This course will examine environmental issues and the natural world from a cultural and socio-economic 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.

Soc 311D ECOLOGY AND 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 4-8

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 upon 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.

Prerequisite: Soc 200D or consent of the instructor.

Soc 330D MIND, SELF AND SOCIETY (4-0) 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. Taught every other year.

Soc 340D RELIGION AND SOCIAL LIFE (4-0) 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. Taught every other year.

Soc 345A1 ART AND SOCIETY (4-0) 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. Taught every other year.

Soc 353D MEDICAL SOCIOLOGY (4-0) 4

A study of the social practices and beliefs which 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 majors as well as social science majors.

Soc 361D DEVIANCE (4-0) 4

An examination of the traditional versions of deviance followed by modern critiques which emphasize "labeling" and the more phenomenological approaches to understanding human conduct.

Soc 362D CRIMINOLOGY AND CRIMINAL JUSTICE (4-0) 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.

Soc 363D JUVENILE DELINQUENCY (4-0) 4

A review of contemporary thinking about the development of juvenile delinquency and the linkages between juvenile delinquency and the administration of juvenile justice. Taught every other year.

Soc 375D SOCIOLOGY OF EDUCATION (4-0) 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. Taught every other year.

Soc 376D LANGUAGE AND SOCIAL BEHAVIOR (4-0) 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. Taught every other year.

Soc 380D WORK AND AUTHORITY IN SOCIETY (4-0) 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. Taught every other year.

Soc 421 CONTEMPORARY SOCIAL ANALYSIS IN THE SOUTHWEST (4-0) 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. Taught annually, senior year.

Prerequisite: Soc 320.

Soc 496 SENIOR SEMINAR (4-0) 4

Advanced study and research in selected topics. The student will prepare and submit a senior seminar research paper to qualify for graduation.

Prerequisite: Soc 421 or concurrent registration.

Soc 499 INDEPENDENT STUDY 1-4

Tutorial or individual research conducted in consultation with a member of the sociology/human services faculty. Topic must be clearly defined in a written contract between student and faculty member.

Southwest Studies

SW 100 FUNDAMENTALS OF NAVAJO LANGUAGE I (3-0) 3

A course in the basic fundamentals of the Navajo language on the oral-aural approach. A native speaker is the instructor and much use is made of tapes, etc.

SW 101A1 NAVAJO LANGUAGE II (3-0) 3

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language.

Prerequisite: SW 100 or consent of instructor.

SW 115 NATIVE AMERICAN NEWSLETTER (3-0) 3

For lower-division students with good writing skills. Students will prepare six stories for publication in the *Intercultural News*, gaining basic skills in newswriting 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.

SW 123CE AMERICAN INDIAN HISTORY (3-0) 3

The history of Indians of the United States from contact to the present.

SW 125CE HISTORY OF HISPANOS IN THE SOUTHWEST (3-0) 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.

SW 131C SOUTHWEST HISTORY AND CULTURE (3-0) 3

A broad introduction to Southwestern history and cultures with lectures on history, archaeology, literature, art and other related topics.

SW 135E THE SOUTHWEST I (4-0) 4

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.

SW 136C THE SOUTHWEST II (4-0) 4

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.

SW 154A2 INDIAN ARTS AND CRAFTS I (0-6) 3

This course is the same as Art 154A2. For description of course, see Art. Fall and winter terms.

SW 155A2 INDIAN ARTS AND CRAFTS II (0-6) 3

This course is the same as Art 155A2. For description of course, see Art. Fall and winter terms.

SW 265A2 ART HISTORY OF THE SOUTHWEST (3-0) 3

This course is the same as Art 265A2. For description of course, see Art.

SW 280DE NATIVE AMERICAN IN THE MODERN WORLD (3-0) 3

An advanced study of contemporary affairs that involve the American Indian. The historical beginnings, development and current significance of issues will be studied.

SW 282CE THE HISPANO CULTURE OF THE SOUTHWEST (3-0) 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.

SW 315 NATIVE AMERICAN NEWSWRITING (3-0) 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.

Prerequisite: Comp 150, LIB 150, and consent of instructor.

SW 317A1 HISTORY OF AMERICAN INDIANS IN FILM (3-0) 3

An analysis of the treatment of American Indians in film. It also will relate film images to images in literature and other media.

Prerequisite: Comp 150, LIB 150.

SW 322CE AMERICAN INDIAN PHILOSOPHIES (3-0) 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 which have been changed through contact with American society.

Prerequisite: Comp 150, LIB 150.

SW 323CE SOUTHWEST INDIAN HISTORY (3-0) 3

Studies the history and culture of Native American groups in the Southwest.

Prerequisite: Comp 150, LIB 150.

SW 326C WEST AND SOUTHWEST IN FILM AND FICTION (3-0) 3

An analysis of the treatment of the West and Southwest in film and fiction.

Prerequisite: Comp 150, LIB 150.

SW 327CE AMERICAN INDIANS AND THE MASS MEDIA (3-0) 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 which 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.

Prerequisite: Comp 150, LIB 150.

SW 330C COWBOYS, CATTLEMEN AND POPULAR CULTURE (3-0) 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.

Prerequisite: Comp 150, LIB 150.

SW 340 ARCHIVAL THEORY AND PRACTICE (4-0) 4

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.

SW 341 ORAL HISTORY: THEORY AND PRACTICE (2-0) 2

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 a transcribed oral history interview of sufficient historical research value to warrant inclusion in the Center of Southwest Studies collection.

SW 342 INTERPRETATION OF CULTURAL RESOURCES (3-0) 3

This course is designed to prepare students in the interpretation of cultural resources and to create awareness of Native American perspectives regarding cultural resources.

Prerequisite: Permission of instructor.

SW 355C DEVELOPMENT OF UNITED STATES INDIAN POLICY (3-0) 3

This course traces the development of United States policy towards 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 which have led to the present philosophy of pluralism and self-determination in United States Indian policy.

Prerequisite: Comp 150, LIB 150.

SW 360A2E MESOAMERICAN ART HISTORY (3-0) 3

This course is the same as Art 365A2E. See Art 365A2E for course description.

Prerequisite: Comp 150, LIB 150.

SW 365C HISPANIC CIVILIZATION (3-0) 3

Contributions of Spain and Portugal to the building of western civilization. Topics include: Great Age of Exploration, Golden Age of Spanish-Portuguese Civilization, Masterworks of Literature and History of Ideas. Offered on demand.

Prerequisite: Comp 150, LIB 150.

SW 375 HISPANIC-AMERICAN CIVILIZATION (3-0) 3

The literature, culture, thought, art, anthropology, history, geography and contemporary position of Hispanic-American civilization. Offered on demand.

Prerequisite: Comp 150, LIB 150.

SW 381A1 CHICANO LITERATURE (3-0) 3

This course is the same as ML 331. See ML 331 for course description.

Prerequisite: Comp 150, LIB 150.

SW 383C SOUTHWEST HISTORY TO 1868 (3-0) 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.

Prerequisite: Comp 150, LIB 150.

SW 384C SOUTHWEST HISTORY, 1868 TO PRESENT (3-0) 3

This course will cover the political, social and economic history of the Southwest from 1868 to the present.

Prerequisite: Comp 150, LIB 150.

SW 385E CONTEMPORARY NATIVE AMERICAN NOVELS (3-0) 3

This course is the same as Engl 385E. See Engl 385E for course description.

Prerequisite: Comp 150, LIB 150.

SW 386E NATIVE AMERICAN AUTOBIOGRAPHY (3-0)

This course is the same as Engl 386E. See Engl 386E for course description.

Prerequisite: Comp 150, LIB 150.

SW 402A1orA2 CONTEMPORARY ART AND LITERATURE OF THE SOUTHWEST (3-0) 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 artifact black market, curating major exhibits, and displaying of and writing about the sacred.

Prerequisite: Comp 150, LIB 150.

SW 481C COLORADO HISTORY (3-0) 3

The history and peoples of Colorado from the preterritorial days through the present.

Prerequisite: Comp 150, LIB 150.

SW 482C MINING IN THE AMERICAN WEST (3-0) 3

From the days of the Spanish to today, a history of mining and its impact, with special emphasis on the Southwest.

Prerequisite: Comp 150, LIB 150.

SW 493 INTERNSHIP IN SOUTHWEST STUDIES 3-6

The internship offers instruction and hands-on experience in museology and archival management.

Prerequisite: Permission of instructor.

SW 496 SENIOR SEMINAR (3-0) 3

Senior seminar in Southwest Studies.

Prerequisite: Comp 150, LIB 150.

SW 499 PROBLEMS IN SOUTHWEST STUDIES 3

A senior-level individual research project based on the needs and interests of the individual. Offered on demand.

Prerequisite: Comp 150, LIB 150 and consent of committee director.

Spanish**ML 100 FUNDAMENTALS OF NAVAJO LANGUAGE I (3-0) 3**

A course in the basic fundamentals of the Navajo language on the oral-aural approach. A native speaker is the instructor and much use is made of tapes, etc.

ML 101A1 NAVAJO LANGUAGE II (3-0) 3

Continuation of Navajo I. Whereas Navajo I emphasized speaking, this course will center on reading and writing the Navajo language.

Prerequisite: ML 100 or consent of instructor.

ML 115 ELEMENTARY SPANISH I (4-0) 4

A course in grammar, prose composition, reading and conversation. Fall and winter terms.

ML 116A1 ELEMENTARY SPANISH II (4-0) 4

Continuation of ML 115. Fall and winter terms.

Prerequisite: ML 115 or consent of instructor.

ML 118A1 SPANISH OF THE SOUTHWEST (4-0) 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.

- ML 215A1 INTERMEDIATE SPANISH I** (4-0) 4
A course in second-year Spanish with emphasis on grammar review, reading and conversation. Fall and winter terms.
Prerequisite: ML 116A1 or consent of instructor.
- ML 216A1 INTERMEDIATE SPANISH II** (4-0) 4
Continuation of ML 215A1. Fall and winter terms.
Prerequisite: ML 215A1 or consent of instructor.
- ML 219A1 INTERMEDIATE SPANISH CONVERSATION** (3-0) 3
Students will engage in practical every day situations, as well as discussions on current issues and events through interaction. Repeatable for credit.
- ML 319A1 ADVANCED SPANISH CONVERSATION AND COMPOSITION I** (4-0) 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.
Prerequisite: ML 216A1 and/or ML 219A1.
- ML 320W ADVANCED SPANISH CONVERSATION AND COMPOSITION II** (4-0) 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.
- ML 321A1E SURVEY OF HISPANIC AMERICAN LITERATURE I** (3-0) 3
A course in the literature of Colonial Spanish America from 1492-1824, with an emphasis on pre-Columbian literature, chronicles of discovery, travel and conquest, the 17th century poetry, roots of national literature and folklore, and literature of the Wars of Independence. Fall term.
Prerequisites: ML 319A1, ML 320W.
- ML 322A1E SURVEY OF HISPANIC AMERICAN LITERATURE II** (3-0) 3
A course dealing with the Romantics, Realists, Modernists, and Naturalists of the 19th century Spanish American republics. Also, the literature of the 20th century emphasizing the Mexican Revolution and contemporary Spanish American writers will be included. Winter term.
Prerequisite: ML 321A1E or consent of instructor.
- ML 325A1 SURVEY OF SPANISH LITERATURE I** (3-0) 3
A survey of the literature of Spain from the 10th to 18th centuries. Fall term.
Prerequisite: ML 319A1 and 320W or consent of instructor.
- ML 326A1 SURVEY OF SPANISH LITERATURE II** (3-0) 3
A survey of the literature of Spain from 1824 to the present. Winter term.
Prerequisite: ML 325A1 or consent of instructor.
- ML 331A1E CHICANO LITERATURE** (3-0) 3
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.
Prerequisite: ML 216A1 or consent of instructor.
- ML 345A1 HISPANIC CULTURE AND CIVILIZATION I: SPAIN** (3-0) 3
An integrated, interdisciplinary study in Spanish of the culture of Spain as reflected in its language, philosophy, psychology, religions and the arts (literature, architecture, painting, sculpture, music, etc.). Folklore, customs, values and traditions will be emphasized. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic people. Fall term.
Prerequisite: ML 216A1 or consent of instructor.

ML 346A1E HISPANIC CULTURE AND CIVILIZATION II: LATIN AMERICA (3-0) 3

An integrated, interdisciplinary study in Spanish of the cultures of Latin America as reflected in their language, philosophy, psychology, religions and the arts (literature, architecture, painting, sculpture, music, etc.). Folklore, customs, values and traditions will be emphasized. This course gives students an appreciation of the ways of life and attitudes of contemporary Hispanic people. Winter term.
Prerequisite: ML 216A1 or consent of instructor.

ML 350A1 SPANISH FOR THE PROFESSIONS: TOPICS (3-0) 3
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 Social Sciences, or other professions. Repeatable under different topics.
Prerequisite: Spanish proficiency.

ML 426A1 20TH CENTURY HISPANIC LITERATURE (3-0) 3
A course on contemporary Hispanic authors.
Prerequisites: Two literature courses and Spanish proficiency.

ML 427A1E HISPANIC AMERICAN NOVEL AND POETRY (3-0) 3
A course on the contemporary novels, as well as the poetic masterworks of Spanish.
Prerequisites: ML 320W, 321A1E or 322A1E or consent of instructor.

ML 429A1E MEXICAN LITERATURE (3-0) 3
A survey of Mexican literature with emphasis on the works of the Revolution of 1910 and contemporary Mexican authors. Alternate years.
Prerequisites: ML 319A1, 320W, 321A1E or 322A1E, or consent of instructor.

ML 496 SENIOR SEMINAR IN SPANISH (3-0) 3
Advanced study and research in selected topics. Fall term.
Prerequisites: Two literature courses, senior standing and consent of instructor.

ML 499 INDEPENDENT STUDY IN SPANISH, FRENCH OR GERMAN 1-3
Individual research conducted under the supervision of a faculty member. Offered on demand for seniors only.
Prerequisites: Approval of department chair and senior standing.

Special Topics

SPECIAL TOPICS 190 1-6
This is not a fixed course but is a designation to take advantage of special opportunities and topics. It can be offered in any area with the consent of the school dean and the Vice President for Academic Affairs. From 1 to 6 credits may be earned.

SPECIAL TOPICS 191 3-6
This is not a fixed course but is a designation to take advantage of special opportunities and topics which meet the purpose of one of the groups under the General Studies Program. It can be offered in any area with consent of the school dean, the Vice President for Academic Affairs, and curriculum committee. Credit may vary from 3 to 6 credits.

SPECIAL TOPICS 390 1-6
Same as Special Topics 190 except that this course is taught at the upper-division level.

SPECIAL TOPICS 391 3-6
Same as Special Topics 191 except that this course is taught at the upper-division level.

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 101A2 INTRODUCTION TO THEATRE (4-0) 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. Fall and winter terms.

Thea 121 SPEECH COMMUNICATION (3-0) 3

Through closely supervised activities in various speech forms, the student develops skills necessary to deal successfully with various speaking situations. Summer term.

Thea 126A2 INTRODUCTION TO THE DANCE (4-0) 4

This course offers an exploration of the historical/theoretical bases of dance and its many variant forms. In addition to gaining a 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. Fall term.

Thea 135A2 ACTING TECHNIQUES (4-0) 4

This course is the first in the performing sequence (135A2, 335A2 and 435). 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.

Thea 170 DRAMATIC VISION AND SOCIAL CONTEXT: (TITLE OF WORK OF ART) (1-0) 1

This course involves a close discussion of the vision of human life in a single work of dramatic art as the work expresses and emerges from its particular environment. This course and Thea 370 may be repeated for a total of 8 credits. Open to freshman and sophomore students. Offered on demand.

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 210A2 MOVIE REVIEWS (3-0) 3

Students will see about a dozen different films and analyze them in both written and oral critiques. Elements of plot, character, theme, soundtrack, dialogue and the technology of the film will be studied. The focus is on what the film maker is trying to say and how well she or he achieves the goal. Summer term.

Thea 222A2 CREATIVE DRAMATICS (4-0) 4

The students in this course endeavor to develop creativity and imagination through theatre. Course content includes an exploration of how people learn through theatrical techniques and improvisations. While especially useful to those working with youngsters, these techniques which foster self-awareness and expression can be used by anyone. Students may conduct workshops with school children in Durango.

Thea 223A2 CHILDREN'S THEATRE (4-0) 4

The primary purpose of this course is to create, produce and perform a play for children. Students explore the kinds of performances that are appropriate at different ages. The story line, theme, costume and set may be designed, created or selected by the class. The play will be performed for child audiences in the Durango area. Summer term.

Thea 230A2 STAGE DESIGN AND TECHNOLOGY (3-2) 4

This class provides an introduction to design in theatrical art and the ways that design is executed during a production. Emphasis is placed on scenic and lighting design, the actor-audience relationship, theatre organization, and production management. Drawing skills helpful, but not required. Fall term.

Thea 280A2 INTERDISCIPLINARY STUDIES: (TITLE) (4-0) 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 is used for this study. The plays or the movement and the society and historical period in which they arose will become occasions for study from an interdisciplinary perspective. Suitable "Topics" course for English majors.

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 310A2 ART & DESIGN FOR THE THEATRE (4-0) 4

Students will examine performance spaces, how human perception makes for the rules of design, basic perspective drawing techniques, research into period, style, stage movement and stage lighting. Students will present to the class a series of researched designs for the stage.

Thea 330A2 ANCIENT AND CLASSICAL THEATRE (4-0) 4

This course is the first in the dramatic literature sequence (330A2, 340W and 350A2). 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 great distance from our own. Time periods covered in this class include: classical Greek and Roman tragedy and comedy, classical Asian theatre forms, Medieval drama, Italian Renaissance theatres, Elizabethan drama, Jacobean and Caroline theatre, Spanish theatre, French Neo-Classical theatre, Restoration and Theatre of the Enlightenment. This course may count as a "topics" course for English majors. Fall term.

Thea 335A2 STYLES IN ACTING (3-2) 4

This course is the second in the performing sequence (135A2, 335A2 and 435). It further develops the student's performance skills through the theory and practice of various systems of acting. Focus is placed on movement and voice for the actor. At this level the students will focus primarily on styles in acting. Thea 135A2 suggested but not required. Winter term.

Thea 340W MODERN THEATRE (4-0) 4

This course, the second in the dramatic literature sequence (330A2, 340W and 350A2), 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. Will also explore coinciding developments in Asian and African theatre, and intercultural influences. Thea 330A2 suggested but not required before taking this course. May be taken as a "Topics" course for English majors. Winter terms.

Thea 350A2 CONTEMPORARY THEATRE (4-0) 4

The third in the dramatic literature sequence (330A2, 340W and 350A2) this course explores the wide variety of theatrical possibilities from the mid-20th century to the present. The course will focus on contemporary theatrical movements, reading a wide selection of plays from the United States, Europe, Eastern Europe, Latin America, Africa, and Asia. The course will stress the increasing interrelatedness of world theatre as well as continuing experimentation with theatrical form. Thea 330A2 and 340W suggested but not required before taking this course. May be taken as a "Topics" course for English majors. Alternate winter terms.

Thea 366 DANCE TECHNIQUE: (STYLE OF DANCE) (2-0) 2

This course is specifically dance technique, or the practical application of a specific dance form. 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.

Thea 369A2 PLAYWRITING (4-0) 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. Fall term.

Thea 370 DRAMATIC VISION AND SOCIAL CONTEXT: (TITLE OF WORK OF ART) (1-0) 1

This course involves a close discussion of the vision of human life in a single work of dramatic art as the work expresses and emerges from its particular environment. This course and Theatre 170 may be repeated for a total of 8 credits. Open to junior and senior students. Offered on demand.

Thea 381A2 SPECIAL TOPICS IN DRAMATIC LITERATURE (4-0) 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 English majors.

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 401 ADVANCED STUDIES (4-0) 4

This course is an advanced study in a theatrical style, an area of dramatic literature, theatre management, stage management, dance, directing or choreography.

Thea 435 CREATING PERFORMANCE: DIRECTING (4-0) 4

This course is the third in the performing sequence (135A2, 335A2 and 435). It concentrates on the conceptual and practical application of performance in the form of creating a production from conception to closure. Students will develop and utilize the skills of analysis, strategic planning, directing, creating movement, organization and administration. Thea 135A2, Thea 335A2 and participation in at least two departmental productions are suggested but not required before taking this course.

Thea 496 THEATRE SEMINAR (4-0) 4

This course gives juniors and seniors the opportunity to demonstrate their abilities to connect the analytical academic research process to performance. Significant research, on an approved topic, will result in a substantial paper. This research, then combined with insightful performance knowledge, problem solving techniques and creativity will result in a public presentation.

Prerequisite: Junior or senior standing and consent of instructor.

Thea 499 INDEPENDENT STUDY 1-3

Individual research is conducted under the supervision of a faculty member. Offered on demand.

Prerequisite: Approval of Theatre Department faculty.

Transitional Studies**TRST - TRANSITIONAL STUDIES**

As the title implies, Transitional Studies courses are designed to assist students in their transition from high school to college. The classes, taught by the staff of the Learning Assistance Center, do not give students credit towards graduation, but do carry credit which can be applied to financial aid and housing requirements. With the exception of the English as a Second Language Classes, students receive a grade of S (Satisfactory) or NC (No Credit).

TRST 85 ESL COMPOSITION (3-0) 0

Designed to prepare students for whom English is a second language to write acceptable college essays. Subjects covered include prewriting, thesis development, sentence development, paragraph development, grammar review, punctuation review, logic and vocabulary development.

TRST 86 ESL STUDY SKILLS (3-0) 0

Designed to be taken in conjunction with TRST 85. The course develops in students for whom English is a second language the thought processes, habits and skills necessary to succeed in college. Subjects covered include notetaking, textbook reading, questioning, test taking and classroom etiquette.

TRST 91 THE WRITING PROCESS (3-0) 0

Designed to improve the composition skills of students who have weak backgrounds in writing. The course focuses upon pre-writing, logic, paragraph organization, and essay structure, and includes frequent one-on-one critique sessions with the instructor.

TRST 92 INTERMEDIATE ALGEBRA (2-1) 0

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.

TRST 95 LEARNING SKILLS (2-0) 0

Designed to develop the thought processes, habits and skills students need in order to succeed in college. Subjects covered include time management, notetaking, concentration, textbook reading, test taking, memory development and college policies.

Women's Studies**WS 101D INTRODUCTION TO WOMEN'S STUDIES (4-0) 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.

3T THEORY (4-0) 4

or strands of feminist
 | feminism, socialist
 inism will be explored

historically and through analysis of key texts.

Prerequisite: WS 101D.

WS 280 ISSUES IN WOMEN'S HEALTH (4-0) 4

This course will examine women's health throughout 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.

Prerequisite: WS 101D.

**WS 351D WOMEN AND WORK:
STRATEGIES FOR SUCCESS (4-0) 4**

This course is an interdisciplinary exploration of a wide range of issues confronting women and work. A key focus is the impact of the social construction of "women's work" on the experience of women in the workplace. In this course an equal emphasis will be placed on gaining a theoretical understanding of the issues and examining feminists' strategies to effect change.

Prerequisites: WS 101D recommended; Comp 150, LIB 150 required.

WS 365DE WOMEN AND DEVELOPMENT (3-0) 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. Same as PS 365DE. Recommended: PS 280.

WS 499 INDEPENDENT STUDY IN WOMEN'S STUDIES 1-4

Individual research is conducted under the supervision of a faculty member.

Writing Program

(See Composition on Page 91.)



ADMINISTRATION AND FACULTY

Index

Administration.....	172
Faculty.....	173

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1998-99

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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), *Visiting Instructor of Modern Language* (1998)
B.A., University of New Mexico, 1987
M.A., University of New Mexico, 1988
- ALCAZAR, REINALDO M., *Professor of Modern Language* (1983)
B.A., University of Northern Colorado, 1965
M.A., University of Colorado, 1970
Ph.D., University of Colorado, 1976
- ANGUS, EDWARD L., *Professor of Political Science* (1981)
A.B., University of Kentucky, 1961
M.A., Pennsylvania State University, 1963
Ph.D., Pennsylvania State University, 1970
- 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
- ASH, JAMES K., *Director of Cooperative Education and Associate Professor of History and Women's Studies* (1970)
A.B., University of California/Berkeley, 1967
A.M., Harvard University, 1970
- ATENCIO, LEONARD D., *Professor of Economics* (1968)
B.A., Fort Lewis College, 1964
Ph.D., Kansas State University, 1969
- BARCELÓ, MARGARITA, *Assistant Professor of English and Women's Studies* (1996)
B.A., Santa Clara University, 1987
M.A., University of California/San Diego, 1992
Ph.D., University of California/San Diego, 1995
- BARTLETT, WILLIAM R., *Professor of Chemistry* (1978)
B.A., Luther College, 1965
Ph.D., Stanford University, 1969
- BEDOR, DONNA AGNES, *Librarian and Associate Professor* (1990)
B.A., Mt. Angel College, 1961
M.L.S., University of Denver, 1965
- BELL, GREGORY W., *Professor of Mathematics and Assistant Vice President for Academic Affairs* (1978)
B.A., University of Utah, 1969
M.A., University of Michigan, 1972
Ph.D., University of Michigan, 1976
- 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
- BLAIR, ROBERT W., JR., *Professor of Geology* (1973)
B.S., University of New Mexico, 1966
Ph.D., Colorado School of Mines, 1975
- BREW, DOUGLAS, *Professor of Geology* (1980)
A.B., Dartmouth College, 1957
M.S., Cornell University, 1963
Ph.D., Cornell University, 1965
- BRITKO, STEPHEN D., *Associate Professor of Art and Art Representative* (1997)
B.A., McKendree College, 1967
M.F.A., Southern Illinois University, 1973
- 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
- BUNCH, KENYON DALE, *Associate Professor of Political Science* (1993)
B.S.E., Central Missouri State University, 1970
M.A., Lincoln University, 1977
Ph.D., University of Missouri/Columbia, 1985
- BUNTING, ROBERT REED, *Assistant Professor of History* (1994)
B.S., Eastern Oregon State College, 1969
M.A., Wichita State University, 1971
Ph.D., University of California, 1993
- BURNS, SAMUEL A., *Director, Office of Community Services and Professor of Sociology/Human Services* (1972)
B.A., University of San Francisco, 1963
Ph.D., University of Colorado, 1985
- BUSTAMANTE, ADRIAN HERMINIO, *Associate Professor of Southwest Studies* (1995)
B.A., College of Santa Fe, 1959
M.A., St. Mary's University, 1968
Ph.D., University of New Mexico, 1982
- BYRD, JOHN WILLIAM, *Assistant 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, *Associate Professor of Biology* (1992)
B.A., Western State College, 1980
M.S., University of Oregon, 1983
Ph.D., University of Oregon, 1987
- 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
- CAVE, JOHN E., *Dean, School of Business Administration and Professor of Business Administration* (1990)
B.S., University of Minnesota, 1966
M.S., University of Minnesota, 1970
Ph.D., University of Minnesota, 1975
- 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., *Associate Professor of Psychology* (1989)
A.B., Bryn Mawr College, 1974
A.M., Harvard University, 1980
Ph.D., Harvard University, 1983

- CLAY, CHERYL DUDTE, *Assistant Professor of Teacher Education* (1994)
 B.A., Kansas State University, 1969
 M.A., Kansas State University, 1974
 Ph.D., University of Denver, 1995
- CLAY, JAMES P., *Professor of Business Administration/Economics* (1982)
 B.A., University of Colorado, 1966
 M.A., Kansas State University, 1968
 Ph.D., Kansas State University, 1974
 C.M.A., 1982
- COE, WILLIAM, *Professor of Philosophy* (1971)
 A.B., Dartmouth College, 1957
 M.A., Vanderbilt University, 1959
 Ph.D., Pennsylvania State University, 1967
- COLEMAN, JEREMY J., *Professor of Business Administration* (1983)
 B.S., Princeton University, 1963
 M.P.A., Harvard University, 1968
 D.B.A., George Washington University, 1974
- COLGAN, JOSEPH C., *Professor of Accounting* (1981)
 B.A., Kearney State College, 1960
 M.B.A., University of Denver, 1966
 Ph.D., North Texas State University, 1981
 C.P.A., Colorado, 1967
- COLLIER, JAMES D., *Associate 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
- COOK, ROY ALLEN, *Professor of Business Administration* (1989)
 B.B.A., Southwest Texas State, 1971
 M.B.A., Sam Houston State University, 1972
 D.B.A., Mississippi State University, 1989
- COOPER, ANNETTE J., *Professor of Mathematics* (1986)
 B.S., Southwestern State College, 1963
 M.N.S., Oklahoma University, 1970
 Ed.D., Oklahoma State University, 1977
- 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, JAMES M., *Professor of Physics* (1985)
 B.A., Doane College, 1959
 M.S., University of Nebraska, 1963
 Ph.D., University of Nebraska, 1967
- CRAWFORD, GERALD, *Associate Professor of Physics* (1986)
 B.A., Gustavus Adolphus College, 1979
 M.S., University of Oregon, 1980
 Ph.D., University of Oregon, 1983
- CRIDLAND, SEAN ERIC, *Assistant Professor of Political Science/Philosophy* (1997)
 B.A., Fort Lewis College, 1992
 M.A., University of Hawaii/Manoa, 1993
 Ph.D., University of Hawaii/Manoa, 1997
- CROSS, JAMES S., *Assistant Professor of Exercise Science* (1988)
 B.S., Springfield College, 1974
 M.S., Queens College, 1983
- CROWDER, JOHN, *Librarian and Professor* (1973)
 B.A., University of Colorado, 1969
 M.A., University of Denver, 1973
- 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
- DEAR, JENNIE CYRENE, *Assistant Professor of English* (1996)
 B.A., Williams College, 1983
 M.A., University of New Mexico, 1991
 Ph.D., University of New Mexico, 1996
- deGRAW, THERESA JANE., *Associate Professor of Teacher Education* (1990)
 B.S., Indiana State University, 1969
 M.S., Indiana State University, 1984
 Ph.D., Indiana State University, 1990
- DELGADO, VIVIAN, *Assistant Professor of Teacher Education* (1997)
 B.S., University of South Dakota, 1987
 M.Ed., University of Mary, 1989
 Ph.D., University of North Dakota, 1997
- DODDS, WILLIAM B., *Professor of Marketing* (1992)
 B.S., Clarkson University, 1970
 M.S., Clarkson University, 1971
 Ph.D., Virginia Polytechnic Institute, 1985
- DOLPHIN, ROBERT, JR., *Vice President for Business and Finance and Professor of Finance* (1984)
 B.S., Indiana University, 1960
 M.B.A., Indiana University, 1961
 D.B.A., Michigan State University, 1964
- 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
- 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
- ÉL-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 Associate Professor* (1991)
 B.A., Middlebury College, 1977
 M.A., University of Maryland, 1986
 M.L.S., University of Maryland, 1986
- ENGMAN, VIRGINIA A., *Dean of Education and Professor of Education* (1978)
 B.A., SUNY, Oswego, 1972
 M.S., SUNY, Oswego, 1973
 Ph.D., Arizona State University, 1978
- ERICKSON, MARY ANN, *Assistant Professor of Exercise Science* (1998)
 B.S., Ithaca College, 1978
 M.S., Indiana State University, 1980

- ESTLER, RON C., *Professor of Chemistry* (1982)
B.A., Drew University, 1972
M.A., Johns Hopkins University, 1974
Ph.D., John Hopkins University, 1976
- 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, JAMES, *Professor of Sociology/Human Services and Modern Language* (1971-75, 1988)
B.A., University of Notre Dame, 1961
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Ph.D., University of Colorado, 1983
- FITZGERALD, JANINE MARIE, *Assistant 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
- FRISBIE, JEFFREY LYNN, *Librarian and Assistant 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
- GARCÍA, REYES ROBERTO, *Associate Professor of Philosophy* (1988)
B.A., University of Colorado, 1974
Ph.D., University of Colorado, 1988
- GEHRMAN, JENNIFER ANN, *Assistant 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
- GOFF, J. LARRY, *Professor of Business Administration* (1985)
B.A., University of Oklahoma, 1960
J.D., University of Oklahoma, 1972
M.A., Adams State College, 1989
- GOHDES, JOEL W., *Assistant Professor of Chemistry* (1996)
B.A., Carleton College, 1985
Ph.D., University of California/Berkeley, 1991
- GONZALES, DAVID ALAN, *Assistant Professor of Geology* (1998)
B.S., Fort Lewis College, 1982
M.S., Northern Arizona University, 1988
Ph.D., The University of Kansas, 1997
- GORDON, DONALD R., *Professor of Anthropology* (1975)
B.A., California State University/San Francisco, 1964
M.S., University of Oregon, 1969
Ph.D., University of Oregon, 1974
- GREENWOOD, TINA EVANS, *Librarian and Assistant Professor* (1996)
B.A., University of Arizona, 1987
M.A., Tulane University, 1990
M.L.S., University of Arizona, 1993
- GREFSRUD, GARY W., *Professor of Mathematics* (1971)
B.S., Montana State College, 1960
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Ph.D., Montana State University, 1971
- GRIGG, KALIN LYNN, *Assistant Professor of Sociology/Human Services and Director of Center for Service Learning* (1994)
B.A., Fort Lewis College, 1977
M.A., Denver Conservative Baptist Seminary, 1986
- HAI, WEN, *Assistant Professor of Economics* (1992)
B.A., Peking (Beijing) University, 1982
M.A., University of California/Davis, 1989
Ph.D., University of California/Davis, 1991
- HAMILTON, RODNEY D., *Professor of Chemistry* (1969)
B.S., Marietta College, 1960
Ph.D., Indiana University, 1964
- HARRINGTON, ROBERT P., *Associate Professor of Accounting* (1990)
B.S., University of Florida, 1967
M.B.A., Old Dominion University, 1978
Ph.D., Virginia Polytechnic Institute and State University, 1985
- 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, WILLIAM E., *Assistant Professor of Exercise Science* (1971)
B.S., University of New Mexico, 1962
M.A., University of New Mexico, 1968
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B.S., Jahangirnagar University, 1981
M.S., Jahangirnagar University, 1984
M.A., University of Manitoba, 1989
Ph.D., Syracuse University, 1992
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B.A., Brigham Young University, 1967
M.A., Brigham Young University, 1969
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B.A., Stanford University, 1960
M.A., University of California/Berkeley, 1961
Ph.D., University of California/Berkeley, 1969
- IVERSON, MARTHA SUSAN, *Associate Professor of Physics* (1992)
B.A., University of Colorado, 1971
Ph.D., University of Colorado, 1976
- 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, *Associate 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
- JUDGE, W. JAMES, *Professor of Anthropology*, (1990)
B.A., University of New Mexico, 1961
Ph.D., University of New Mexico, 1970
- JUNG, MARCELYN BETH, *Assistant Professor of Exercise Science and Head Volleyball Coach* (1990)
B.A., Fort Lewis College, 1981
M.S., Illinois Benedictine College, 1990
- KAPADIA, PARMITA, *Assistant Professor of English* (1997)
B.A., Rutgers College, 1989
M.A., University of Massachusetts, 1993
Ph.D., University of Massachusetts, 1996

- KELLY, REECE, C., *Professor of History* (1971)
 B.A., Eastern Washington State College, 1964
 M.A., University of Washington, 1967
 Ph.D., University of Washington, 1973
- KENDALL, DEBORAH MARIE, *Associate Professor of Biology* (1987)
 B.S., Colorado State University, 1975
 M.S., University of Colorado, 1981
 Ph.D., Colorado State University, 1987
- KHANNA, MUKTI, *Associate Professor of Psychology* (1991)
 B.A., Stanford University, 1983
 Ph.D., University of Tennessee, 1989
- KLAGES, JAMES L., *Assistant Professor of Music* (1991)
 B.M., State University of New York/Fredonia, 1978
 M.M., Indiana University, 1983
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 B.A., Fort Lewis College, 1989
 M.A., University of New Mexico, 1993
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 B.A., Fort Lewis College, 1986
 B.A., Fort Lewis College, 1987
 M.A., Arizona State University, 1990
 Ph.D., Arizona State University, 1994
- LANDRUM, MARGARET COZINE, *Director of Library and Associate Professor* (1994)
 B.A., Louisiana State University, 1970
 M.L.S., University of Mississippi, 1975
 M.L.S., Vanderbilt University, 1979
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 B.S., Tufts University, 1958
 Ph.D., University of California/Berkeley, 1962
- LEAVITT, DINAH L., *Professor of Theatre* (1978)
 B.A., University of Mississippi, 1969
 M.A., University of Mississippi, 1970
 Ph.D., University of Colorado, 1978
- LEFTWICH, MARILYN STACEY, *Associate Professor of Psychology* (1991)
 B.S., University of Alabama, 1964
 M.S., Florida State University, 1970
 Ph.D., Florida State University, 1973
- LEHMAN, DALE E., *Associate Professor of Economics* (1983)
 B.A., State University of New York at Stony Brook, 1972
 M.A., University of Rochester, 1975
 Ph.D., University of Rochester, 1981
- LEYERLE, BETTY J., *Professor of Sociology/Human Services and Women's Studies* (1984)
 B.A., Brooklyn College, 1970
 M.A., Brooklyn College, 1975
 Ph.D., City University of New York, 1981
- LINDSEY, J. PAGE, *Professor of Biology* (1978)
 B.A., Hendrix College, 1970
 M.S., University of Arizona, 1972
 Ph.D., University of Arizona, 1975
- LIU, YING YING, *Assistant Professor of Music* (1995)
 B.A., The Central Philharmonic Society
 Conservatory of Music, Beijing China, 1986
 M.M., The Cleveland Institute of Music, 1988
- LOUNGE, JOE, *Assistant Professor of Teacher Education* (1996)
 B.A., Colorado State University, 1971
 M.A., Colorado State University, 1979
 Ph.D., University of Northern Colorado, 1986
- LUM, DENNIS W., *Associate Professor of Sociology/Human Services* (1975)
 B.A., University of Nevada/Reno, 1966
 M.A., University of Nevada/Reno, 1971
 M.A., University of California/San Diego, 1973
- LYNCH, VERNON E., JR., *Professor of Economics* (1972)
 B.A., University of Texas/Austin, 1965
 M.A., University of Texas/Austin, 1967
 Ph.D., University of Arizona, 1976
 C.P.A., Colorado, 1988
- MACK, LINDA S., *Professor of Music* (1982)
 B.M.E., Illinois State University, 1975
 M.S., University of Illinois, 1980
 Ed.D., University of Illinois, 1982
- MacKEEFE, DEBORAH A., *Professor of Modern Language* (1972)
 Degre Supérieur, Sorbonne, 1965
 B.A., University of Arizona, 1966
 M.A., University of Arizona, 1969
 Ph.D., University of Arizona, 1972
- MALACH, MICHELE MARIE, *Assistant Professor of English* (1994)
 B.A., Auburn University, 1986
 M.A., Auburn University, 1988
- MANN, ROCHELLE G., *Professor of Music* (1987)
 B.M.E., Indiana University, 1975
 M.S., Indiana University, 1980
 D.M.A., Arizona State University, 1991
- MAY, DONALD R., *Associate Professor of Engineering* (1984)
 B.S., Colorado State University, 1978
 M.S., Colorado State University, 1982
 Ph.D., Colorado State University, 1993
- McHUGH, NEIL, *Associate Professor of History* (1984)
 B.A., University of Kentucky, 1972
 M.A., Indiana University, 1974
 Ph.D., Northwestern University, 1986
- McKINNEY, ALICE LOUISE, *Librarian and Associate Professor* (1990)
 B.S., Northern Arizona University, 1976
 M.L.S., Louisiana State University, 1985
- McKNIGHT, REED, *Professor of Accounting* (1981)
 B.S., University of Idaho, 1969
 M.B.A., Washington State University, 1971
 Ph.D., University of Oregon, 1981
 C.P.A., Montana, 1974
- MEHS, DOREEN M., *Assistant Dean, School of Arts and Sciences and Professor of Chemistry* (1973)
 B.A., Harpur College, SUNY Binghamton, 1966
 M.A. State University of New York, Binghamton, 1972
 Ph.D., University of New Mexico, 1980
- MEMON, IQBAL A., *Associate Professor of Business Administration* (1988)
 B. Com., University of SIND, 1971
 M. Com., University of SIND, 1973
 M. Phil., University of SIND, 1979
 M.B.A., Illinois State University, 1979
 D.B.A., Mississippi State University, 1984

- MILLS, JAMES W., *Professor of Chemistry* (1973)
B.A., Earlham College, 1963
Ph.D., Brown University, 1967
- MILOFSKY, ROBERT ERIC, *Associate Professor of Chemistry* (1992)
B.S., Bates College, 1987
Ph.D., University of Colorado, 1991
- MOLLER, KATHRYN SARELL, *Associate Professor of Theatre and Women's Studies* (1994)
B.A., Mary Washington College, 1981
M.S., James Madison University, 1983
Ph.D., University of Colorado, 1993
- MOSELEY, MARY JEAN, *Professor of English and Southwest Studies* (1973)
B.A., University of New Mexico, 1964
M.A., University of New Mexico, 1970
Ph.D., University of North Dakota, 1985
- MOSHER, NICOLE MARIE, *Associate Professor of Modern Language* (1990)
B.A., Northern Illinois University, 1981
M.A., University of California/Los Angeles, 1984
Ph.D., University of California/Los Angeles, 1988
- MOSS, SUSAN MARGARET, *Associate Professor of Art* (1991)
B.A., University of Iowa, 1979
M.S., University of Missouri/Columbia, 1983
M.F.A., University of Nebraska/Lincoln, 1991
- MULL, FREDERICK HOBERT, *Assistant Professor of Finance*, (1994)
B.A., Texas A&I University, 1977
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Ph.D., University of Georgia, 1990
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B.S., University of Oklahoma, 1966
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B.A., Claremont McKenna College, 1983
J.D., University of California/Los Angeles, 1986
M.A., University of Hawaii/Manoa, 1993
Ph.D., University of Texas/Austin, 1996
- ORR, DELILAH GAYLE, *Assistant Professor of English* (1991)
B.A., Fort Lewis College, 1971
M.Ed., Harvard University, 1975
- ORTEGA, CATHERINE P., *Assistant Professor of Biology* (1997)
B.A., University of Colorado, 1987
Ph.D., University of Colorado, 1991
- ORTEGA, JOSEPH C., *Associate Professor of Biology* (1991)
B.A., University of California/Los Angeles, 1980
Ph.D., University of Colorado, 1988
- OWEN, DUGALD LEE, *Associate Professor of Philosophy* (1990)
A.B., Stanford University, 1974
M.A., University of California/Berkeley, 1982
Ph.D., University of California/Berkeley, 1991
- PAVICH, PAUL N., *Professor of English* (1978)
B.A., Walsh College, 1967
M.A., Colorado State University, 1968
Ph.D., University of New Mexico, 1973
- PENNINGTON, JOHN CHARLES, *Associate Professor of Music* (1993)
B.A., University of Arizona, 1986
M.M., University of Michigan, 1988
D.M.A., Arizona State University, 1996
- PETERS, ROGER, *Professor of Psychology* (1975)
B.A., University of Chicago, 1965
Ph.D., University of Michigan, 1974
- PETERSEN, PAUL W., *Associate Professor of Exercise Science* (1984)
B.A., University of Northern Iowa, 1972
M.A., University of Nebraska, 1976
Ph.D., University of New Mexico, 1995
- PODLESNIK, RICHARD A., *Professor of Business Administration* (1979)
B.S., Illinois Institute of Technology, 1971
M.S., Illinois Institute of Technology, 1971
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INDEX



INDEX

A

Academic Advancement Program	29, 49
Academic Advising	45
Academic Calendar	4, 11
Academic Faculty	173
Academic Policies	43
Academic Probation/Suspension	44
Academic Procedures	45
Academic Programs	35, 41
Academic Progress	44
Academic Renewal	44
Academic Support Programs	47
Accounting	96
Accounting Courses	120
Accreditation	12
Activities Office, Student Union	30
ACT Tests	14, 16, 19, 43, 108
Actuarial Science Preparation	79
Adding Courses	22, 46
Administrative Personnel	172
Admission	13
Admission Criteria Chart	15
Admission Electronically	14
Admission of Native American Students	19
Admission to Student Teaching	108
Admission to Teacher Education Program	108
Advanced Placement Program	19, 43
Advising and Registration for Freshman	20, 45
Advising and Registration for Transfer Students	20, 45
Advisors	45
Affirmative Action Statement	3
Agricultural Business	97
Agriculture	54
Agriculture Courses	120
Alumni Association	30
Anthropology	55
Anthropology Courses	121
Application	14
Application Deadline	14
Application for Financial Aid (FAFSA)	26
Assessment Efforts	12
Associated Students	30
Associate of Arts Degree	35
Art	56
Art Courses	123
Articulation Agreement	16
Arts & Sciences	35, 53
ASFLC (Associated Students)	30
Athletic Award (Financial)	26
Athletic Facilities	31
Athletics & Recreation	31
Attendance Requirements	44
Auditing	44

B

Bachelor of Arts Degree	35
Bachelor of Science Degree	35
Bachelor's Degree	35, 36
Bachelor's Degree, Second	36
BA/MBA Program	94
Beta Alpha Psi	11
Beta Beta Beta	12
Beta Gamma Sigma	12
Bilingual Education Endorsement	106, 112
Biology	57
Biology Courses	125
Bookstore	30
Business Administration	98
Business Administration Courses	127
Business Administration, School of	35, 93, 95

C

Cabinet, President's	172
Calendar	4, 11
Campus Description	10
Campus Life	27
Campus Map	188
Campus Radio Station	31
Career Services	29
Catalog, Effective	46
Catalog, Interpreting the	37
Center for Service Learning	50
Center of Southwest Studies	47
Checklist for Degree Program	6
Chemistry	59
Chemistry Courses	130
Classification of Students	14, 22, 45
CLEP Examination	19, 43
Club Sports	31
College Description	10
College History	11
College Level Examination Program	19, 43
College Location	11
College Mission	10
College Union Building	30
Colorado Diversity Grant	26
Colorado Part-time Student Grant	26
Colorado Scholars Program	26
Colorado Student Grant (CSG)	26
Colorado Student Incentive Grant (CSIG)	26
Colorado Work-Study	26
Communications	60, 65, 132
Community Services, Office of	50
Composition (Comp 150) (Writing Program)	19, 37, 38, 132
Composition Exemption	19
Computer Center	48
Computer Science Information Systems (CSIS)	60
Computer Science Information Systems (CSIS) Courses	132
Computers and Human Issues	39, 145
Computing and Telecommunications	48
Concurrent Students	20
Conduct Code, Student	32
Continuing Student Scholarships	26
Cooperation with Other Institutions	17
Cooperative Education	38, 41
Cooperative Education Courses	41, 134
Costs	22
Counseling Services	28
Course Listings	117
Course Listings and Descriptions	119
Course Load	46
Courses Common to all Programs	38
Courses, Repeatable	38
Coursework, Recommended	14
Credit by Examination	19
Credit for Military Service	20
Credit for Prior Work	19
CSIS	60
Curriculum	37
Cum Laude	45

D

Dean's List	45
Degree Program Checklist	6
Degrees Offered	35
Delinquent Accounts	22
Dentistry, Pre-	73
Description of College	10
Disabled Students, Services for	22
Disciplinary Action	32
Distribution Requirements	37
Dropping Courses	22, 46

E

Early Admission	19
Early Adolescent Endorsement	106, 112
Early Childhood Education	106
Early Childhood Education Licensing Program	109
Early Childhood Endorsement	111
Economics	99
Economics Courses	134
Educational Goals	10
Education Courses	135
Education, School of	35, 106
Education, Teacher	106
Effective Catalog	46
"El Centro"	48
Elective Courses	36
Electronics Admission	14
Elementary Education	106
Elementary Licensing Program	110
Engineering	62
Engineering Agreements	17
Engineering Courses	139
Engineering Management	100
English	65
English As A Second Language Endorsement	106, 113
English Courses	139
Enrollment	11
Environmental Center	31
Environmental Policy Minor	67
Examinations	19, 44
Exercise Science	113
Exercise Science Courses	142
Extended Studies	42

F

Faculty	11, 173
Faculty Emeriti	179
FAFSA	26
Fall Trimester Registration	45
Family Educational Rights & Privacy Act (FERPA)	46
FAX #	14, 20
Federally Funded Programs	26
Fees	22
FERPA	46
Final Exams	44
Finance	100
Financial Aid	26
Financial Aid Applications	26
First Generation Scholarships	26
Foreign Languages	80
Foreign Students	20
Forestry	17, 69
Forestry Course	144
Fort Lewis College Foundation Scholarships	26
Fort Lewis College General Information	9
Fort Lewis College, Location of	11
Former Students	18
Foundation Scholarships	26
French	69, 80, 144
French Courses	144
Freshmen	14
Freshmen Orientation	20, 45
Full-Time Load	46
Full-Time Students	22

G

GED	16
General Distribution Requirements	37
General Information	9
General Requirements	35
General Science	70
General Science Courses	145
General Studies	37, 38
General Studies Courses	39, 145

Geographic Information Systems (GIS) Minor	70
Geography	71
Geography Courses	145
Geology	71
Geology Courses	146
German	73, 80, 147
German Courses	147
Grade Point Average (GPA)	44, 45
Grade Replacement Policy	44
Grading	43
Graduate, Petitioning to	36
Graduating with Honors	45
Graduation Requirements	35
Group Distribution Requirements	37
Guns & Weapons Policy	31

H

Health Careers, Preparation for	73
Health Insurance	29
Health Services	29
High School Students	20
History	73
History Courses	148
History of FLC	11
Honors Courses	40, 151
Honors, Graduating with	45
Honors Program	40
Honor Societies	11
Housing	14, 23, 28
Housing Reservations	23
Human Heritage	39, 145
Humanities	75, 151

I

I.D. Cards	31
Incompletes	43
'Independent' Newspaper, Student	31
Independent Study	40, 151
Individualized Study	39, 151
Information Desk, CUB	30
Information Literacy	37, 38, 132
Innovative Months	43
In-State Classification	23
Institutionally Funded Programs	26
Insurance, Student Health	29
Integrated Learning Program	39
International Business	101
International Dual Degree	43
International Experience	42, 94
International Student Exchange	42
International Students	20
International Studies Program	76, 151
Interpreting the Catalog	37
Intramural Program	31

J

Japan Program	42
Japanese	77, 151
Japanese Courses	151
John F. Reed Honors Program	40
Junior Trimester Abroad	42, 94

K

Kappa Mu Epsilon	12
K-12 Education	106
K-12 Licensing Program	111
KDUR-FM	31

L

Latin	77, 151
Latin Courses	151
Learning Assistance Center	48
LIB 150	37, 38, 132

Student Development Services	28
Student Exchange	42
Student Financial Aid	26
Student Government	30
Student Grant, Colorado	26
Student Health Insurance	29
Student Life	30
Student Media	31
Student Newspaper	31
Student Organizations	30
Student Orientations (SOAR)	20
Student Program Board	30
Student Radio	31
Student Responsibilities	1
Student Services	28
Student Teaching	108
Students, Full-Time	22
Students with Disabilities	28
Study Abroad Program	42
Summa Cum Laude	45
Summer Housing	23
Summer Orientation Programs	20
Summer Programs	43, 45
Summer Sessions	4, 43, 45
Supplemental Educational Opportunity Grant (SEOG)	26
Suspension	44
Swimming Pool	31

T

Teacher Education Courses	135
Teacher Education Program	106
Telecommunications	48
Telephone Registration	45
Theatre	89
Theatre Courses	167
Tourism & Resort Management	104
Transcripts	46
Transfer Agreements	17
Transfer Appeals Process	18
Transfer Disputes, Resolving	18
Transfer of Credits	16
Transfer Students	16, 20
Transferring to Fort Lewis	16
Transferring to Other Institutions	17

Transitional Studies	40, 168
Transitional Studies Courses	168
Trimester Abroad, in Europe	42, 94
Trimester Calendar	4, 11
TRIO Program	29, 49
TRST	40, 168
Tuition Adjustments	22
Tuition & Fees	22
Tuition & Fees, Native American	19
Tuition & Fees, Payment of	22
Tuition & Fees Refund	22
Tuition, In-State Classification	22
Tutoring	49

U

Unclassified Students	20
Union & Activities Office	30

V

Vehicles	31
Veterans	20
Veterinary Medicine, Pre-	73

W

Weapons Policy	31
Web Address	1, 14, 20
Women's Studies	90
Women's Studies Courses	168
Work Study	26
Winter Trimester Registration	45
Writing Program (Comp 150, LIB 150)	19, 37, 38, 91, 169

Y

Young Adult Education (Secondary)	106
Young Adult Licensing Program	110

About the Photographer:

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