



FORT LEWIS COLLEGE

1971-72 CATALOG

DURANGO, COLORADO

Students interested in admission to Fort Lewis College are referred to page 12 of this catalog.

ACADEMIC CALENDAR 1971-72

SPRING - SUMMER 1971

Spring Session

April 26	Monday	Registration
April 27	Tuesday	Classes Begin
May 28	Friday	Classes End

Special Project Month

May 3	Monday	Registration
May 3	Monday	Classes Begin
May 28	Friday	Classes End

First Summer Session

June 14	Monday	Registration
June 15	Tuesday	Classes Begin
July 16	Friday	Classes End

Second Summer Session

July 19	Monday	Registration
July 20	Tuesday	Classes Begin
August 20	Friday	Classes End

FALL 1971

August 13	Friday	Deadline for accepting applications
September 4-6	Saturday-Monday	Orientation and Registration
September 7	Tuesday	Classes begin
October 29	Friday	Mid-term grades due
November 24-28	Wednesday-Sunday	Thanksgiving Break
November 29	Monday	Classes resume
December 18	Saturday	Term ends

WINTER 1972

January 3	Monday	Registration
January 4	Tuesday	Classes begin
February 18	Friday	Mid-term grades due
March 3-6	Friday-Monday	Long weekend vacation
March 7	Tuesday	Classes resume
April 15	Saturday	Term ends

The State Board of Agriculture reserves the right to change these dates.

FORT LEWIS COLLEGE

DURANGO, COLORADO

CATALOG FOR THE
1971-72 ACADEMIC YEAR

January, 1971

FORT LEWIS COLLEGE is accredited by the
North Central Association of Colleges and Secondary Schools.

Discrimination on the grounds of race, color or national origin is contrary to the purposes and policies of Fort Lewis College and violates the spirit and intent of both state and national Civil Rights Laws

CONTENTS

The College	7
Admissions	12
Costs and Financial Aids	16
Services to Students	17
Student Organizations	18
Guidance and Placement	19
Student Conduct	20
Student Health Service	22
Housing	23
Academic Information	26
Programs of Study	26
General Studies Program	31
Academic Performance	33
Courses of Study	38
School of Arts and Sciences	40
School of Business Administration	100
School of Education	120
Center of Southwest Studies	136
The Register	140
Index	155



Commencement



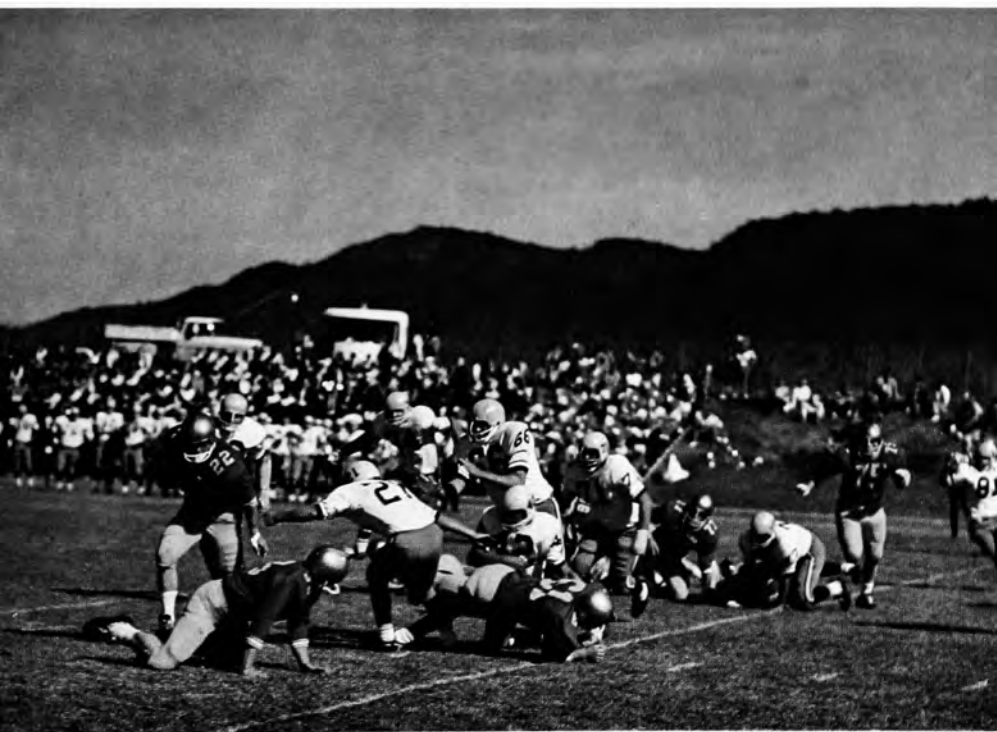
Library



A View From The Chapel



Posting The Colors — Western Style



Football



Hohzoni Days — Modeling Tribal Dress



Academic Building

THE COLLEGE

Fort Lewis College is a State-supported liberal arts college accredited by the North Central Association of Colleges and Secondary Schools. The College became a four-year institution of higher learning in the fall of 1962 with a charge from its Board to develop a program of high quality in the image of the more outstanding undergraduate institutions in the nation. The College is one of Colorado's newest senior colleges, although its tradition dates back to the settlement of the San Juan Basin and its establishment as an army post called Fort Lewis in 1878. It has been successively an Indian School, a secondary school, a two-year branch of Colorado State University, a state-supported junior college, and finally a degree-granting, liberal arts college. In its present status it is cast in the role of an experimental college. The College operates on a modified trimester academic calendar.

ENROLLMENT

A steady pattern of growth and development has occurred at the College since 1962, both in enrollment and in financial resources. In 1962, the enrollment was 720 students. In the fall of 1970 the enrollment was over 2075 and will exceed 2200 students by 1972.

PHYSICAL PLANT

The College, originally located 16 miles southwest of Durango, moved to its present location in 1956; none of the buildings are older than that date.

An extensive building program is currently underway on the campus. A library-classroom building and six new residence halls were opened for use in 1967. A new student center was completed in 1968 and a life science addition to the academic building in 1969. A new physical education building and a new humanities-fine arts building are under construction. In addition to these new buildings, there is an academic building, fine arts building, gymnasium, student center, chapel, health center, married student apartments, and seven residence halls.

THE FACULTY

The faculty of the College consists of nearly 100 full-time teachers. One of the strong convictions prevailing at Fort Lewis is that every member of the academic faculty must be an excellent and dedicated teacher. Special advantages immediately accrue to students in a college whose faculty is primarily concerned with teaching and counseling and where students can receive personal attention.

THE PHILOSOPHY

The liberal arts program at Fort Lewis College is designed to help the student prepare to live a complete and useful life, as well as preparing him for employment or graduate school, whether his interests are science, mathematics, the humanities, social sciences, history, or for the professions such as business, law, medicine, education, government service. The College expects its students to be well rounded in the liberal arts and expects them also to receive sufficient preparation in their special areas of interest to secure and hold good positions upon graduation.

The educational philosophy of the College is to educate young adults to enjoy life to the fullest, to assume willingly the responsibilities of democracy in the world of today, and to prepare young adults for gainful employment or for graduate study.

The main business of the College is teaching . . . teaching, first of all, in the classroom and in the laboratory, but secondly through continued out-of-class contact among faculty, administration, and individual students. An informal, friendly atmosphere prevails throughout the campus.

The Fort Lewis program includes the following characteristics that mark the liberal arts nature of the College:

— Each student, regardless of his major area of interest, is required to complete satisfactorily 41 semester hours of “general studies.”

— Each student, regardless of his major area of interest, is required to complete as electives a considerable number of courses outside his primary academic field of study.

— The curriculum consists of a limited number of courses which has the effect of concentrating rather than fragmenting the knowledge acquired over the centuries.

— The College stresses the importance of student and professor exchanges, international experience, and field work under the concept that a modern liberal education unites the practical with the theoretical and attempts to extend the experiences of the members of the College community to many parts of the world.

The Fort Lewis College graduate must be aware of and have a basic knowledge of science, even though his major may be humanities or English, and, conversely, the science major is given a basic knowledge and appreciation of the humanities and the social sciences.

MODIFIED TRIMESTER CALENDAR

With the beginning of Senior College status in 1962, Fort Lewis adopted the trimester calendar. The College continues on a modified trimester plan. The Fall and Winter Trimesters are 15 weeks each. The Spring-Summer period is made up of 15 weeks but divided into three 5-week sessions. Credit hours earned in each of the three trimesters of an academic year equal those acquired in the normal semester.

At Fort Lewis, the Fall Trimester begins early in September and ends before the beginning of the Christmas vacation in December. The Winter Trimester begins early in January and ends in late April. The Spring-Summer terms begin about the first of May and end in mid-August.

Students who choose to attend Fort Lewis year around will find they can graduate in two and two-thirds calendar years.

SPECIAL PROJECT MONTH

In May of 1971 an experimental program will be launched concurrent with the first five-week Spring Term. To encourage innovative and field projects, May has been designated *Special Project Month*. Six projects will be offered this first year. They are full-time courses carrying four semester hours of credit. Students freed from the competition of other courses for their time will be able to concentrate on one course only. Also this permits the work to be conducted on or off campus as the best interest of the course dictates.

The six projects for May, 1971, are: Creative Writing and the Creative Process; Internship and Research in Indian Education; An Intensive Musical Study of a Great Cultural City: Boston; A Sociological Comparative Field Study of Urban Areas, Systems, and Problems; Stratigraphic Facies Analysis; and Management in Action. Those interested in one of these projects or regular summer courses should write the Office of Admissions and Records for further information.

THE LIBRARY

The library is a major unit of the institution, serving primarily as a teaching instrument in which all of the materials and activities are channeled to accomplish these objectives:

1. To supplement and enhance instruction.
2. To encourage the extra-curricular use of library materials by students with a view toward facilitating the life-long process of self education.

The library contains over 75,000 books, over 600 periodicals, and many thousand reels of microfilm. Audio-visual materials include many films, records, transparencies, and facilities for television activities.

The modern library building provides reading space for more than 300 students, with the majority of the seating at individual stations. It is also designed for expansion as future growth of the institution occurs. Excellent audio-visual facilities, including listening rooms, preview rooms, and television equipment are available. The stacks are open and the featured areas include a bibliographic and reference section, several browsing areas centered around an attractive fireplace, seminar rooms, facilities for reading microfilm, listening to recorded information, and a Southwest special collection room.

As a further service, all students and members of the academic faculty have the privilege of borrowing materials from other libraries throughout the Rocky Mountain region.

CENTER OF SOUTHWEST STUDIES

The Center of Southwest Studies serves a three-fold purpose: it makes possible the gathering into one place the widely-scattered records of the development of the Southwest; it provides an enrichment to the entire academic program of the College through the materials collected and the faculty members directly involved in the program; and the focus on Southwest Area Studies affects a close and desirable integration of several otherwise separate academic disciplines within the College.

The holdings of the Center include books, magazines, newspapers, separates, photographs, and records of all kinds. At the present time, the materials on the American Indians are among the largest in the entire western portion of the United States. Mining, railroad, and military records and early Colorado newspapers comprise other significant holdings. Most of the collection is housed in the Southwest Room of the Library and the materials are available for students in all disciplines and other interested persons to use in research projects of all types.

COMPUTER CENTER

Fort Lewis College has a new computer center built around a medium sized, third-generation computer. This facility provides for students and faculty an important tool for creative work in independent study as well as in many regular courses in sciences, mathematics, business, and social sciences.

THE FORT LEWIS COLLEGE FOUNDATION

The Fort Lewis College Foundation was established for the purpose of soliciting, receiving, managing, and disbursing gifts to Fort Lewis College. The Foundation operates only for the welfare of Fort Lewis College and is a non-profit, tax-exempt foundation. Donors may earmark gifts for specific programs of the College or designate their contributions for general college use. The Foundation is managed by 17 trustees from southwestern Colorado. For further information, please contact the Office of the President, Fort Lewis College.

ADMISSION

Students may apply for admission to Fort Léwis College any time after completion of their junior year of high school. An application should be submitted as early as possible and at least one month prior to registration. The required application form usually will be available at the office of any Colorado High School principal. It can always be obtained from the College.

FRESHMEN

A high school student should :

Obtain an application blank from the high school principal or from Fort Lewis College.

Fill out Part One of the application and mail it with a \$10 application fee to the office of Admissions and Records. Have his high school principal or counselor fill out Part Two. (This report is to be forwarded directly to the College.)

Take the *American College Test* and have the results sent to Fort Lewis College. ACT test results are used in advising students and may be a factor in admissibility. Complete information regarding the test may be secured from the high school counselor or principal, or by writing to Registration Department, American College Testing Program, P.O. Box 414, Iowa City, Iowa 52240.

Applications for admission of first-time college students will be evaluated on the basis listed below. Applicants are expected to show promise of success in college, to have demonstrated satisfactory achievement, and/or to have strong recommendations from school officials.

Those admitted are normally high school graduates (grades 9-12) who have completed 15 acceptable secondary school units. Of the 15 units, 10 must be chosen from these academic fields: English, foreign languages, mathematics, science, and social studies, and include not fewer than 3 units of English.

Applicants are expected to be in the upper two-thirds of their graduating class. However, others may also apply.

TRANSFERS FROM OTHER COLLEGES OR UNIVERSITIES

A college student wishing to transfer to Fort Lewis College should:

Request a transfer student application form from the Office of Admissions and Records.

Complete the application and send it to the Office of Admissions and Records at Fort Lewis College with a \$10 application fee.

Request that an official transcript be forwarded to Fort Lewis College to the attention of the Director of Admissions and Records from each college or university attended. Generally, American College Test results are not required for transfer students.

Request the Dean of Students or appropriate personnel officer at the previously attended college or university to forward a completed Part II of the Transfer Application form to the Director of Admissions and Records.

Transfer students who have completed less than one full successful academic year in college should also have a high school transcript forwarded to the Director of Admissions and Records.

Applicants with a cumulative scholastic average of "C" and honorable dismissal 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 will ordinarily be acceptable for transfer.

Normally a maximum of 66 semester hours or equivalent from a junior college may be applied toward a degree. Ordinarily, credit in upper-division courses from junior colleges will not be accepted as upper-level work at Fort Lewis College. An effort will be made to bring college transfer students into the Fort Lewis College program without loss of previously earned credits.

RESUMPTION OF STUDIES BY FORMER STUDENTS

Former students of the College returning after an absence of more than one trimester must petition to resume studies. If the student has attended other collegiate institutions in the interval, he must file complete transcripts of all work taken.

ADMISSION OF AMERICAN INDIAN STUDENTS

Fort Lewis College admits academically qualified American Indian students tuition-free. Such students are required to file documentary evidence of their tribal membership with the Office of Admissions and Records.

Fort Lewis College adheres to the following definition: "The term Indian shall include all persons of Indian descent who are members of any recognized Indian 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 Indian reservation, and shall further include all persons of one-half or more Indian blood. Eskimos and other aboriginal people of Alaska shall be considered Indians . . ." (United States Code, 1964 Edition, Vol. 6, Title 25, Chapter 14, Section 479, Page 4, 897.)

ADMISSION OF STUDENTS FROM FOREIGN COUNTRIES

Fort Lewis College has been approved by the United States Department of Justice as an institution of higher learning for non-quota students.

In general, applicants from foreign countries are required to qualify for admission as other applicants do. A brief statement concerning the admission policies for foreign applicants may be obtained from the Office of Admissions and Records.

ADMISSION OF UNCLASSIFIED STUDENTS

Under special circumstances individuals may be permitted to register for certain courses 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 re-registering may be withdrawn at any time when the accomplishments of a student are not deemed satisfactory. Satisfactory performance as an unclassified student may qualify one for regular admission.

EARLY ADMISSION

ADMISSION AS FULL-TIME STUDENTS

Since 1959, Fort Lewis College has offered a limited program in early admission for a selected number of well qualified high

school students. Under this program an outstanding scholar who has completed 14 acceptable units in high school may apply for admission as a regular freshman full-time student at Fort Lewis College.

For further information the Office of Admissions and Records should be contacted.

HIGH SCHOOL SENIORS AS PART-TIME STUDENTS

Superior high school seniors who attend a high school within commuting distance of the campus or extension centers may be admitted as part-time freshmen students in order to take one or two courses. Such students are required to meet early admission requirements and have the approval of the high school administration.

Students wishing to participate in this program should obtain further information from the Office of Admissions and Records or the high school counselor.

ADVANCED PLACEMENT PROGRAM

Fort Lewis College participates in the Advanced Placement Program of the College Entrance Examination Board. Under this plan outstanding secondary school students may take certain college-level courses in their own high school. Satisfactory scores on an examination administered and graded by the College Board are forwarded to Fort Lewis and may serve as a basis for advanced placement of the student. The decision of the College in such cases is final.

Anyone interested in additional information may consult his high school guidance counselor or write to the College Entrance Examination Board, Box 592, Princeton, New Jersey.

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

OFFICE OF ADMISSIONS AND RECORDS
FORT LEWIS COLLEGE
DURANGO, COLORADO 81301

COST AND FINANCIAL AIDS

COSTS

Costs for students attending Fort Lewis College will vary in accordance with the number of trimesters they attend. The cost for the Colorado resident who attends two trimesters, an academic year, will amount to approximately \$1300, which includes tuition, fees (including 12-month health and accident insurance coverage), room, and twenty meals per week. Out-of-state-students will pay approximately \$1800.

Personal expenses, such as clothing, travel, social activities, books and supplies will depend upon the individual and are in addition to the above expenses. The State Board of Agriculture, governing body for Fort Lewis College, reserves the right to change any charges at any time without prior notice. Reference should be made to the current Schedule of Fees card for a listing of all charges and payment or refund policies.

FINANCIAL AID

Fort Lewis College offers a complete financial aids program of scholarships, grants, loans, and part-time employment for its students. All students are eligible for consideration if they have been accepted for admission or are in attendance and in good standing. Every effort is made by the Financial Aids Office to provide the best type of aid or combination of aid to assist deserving students in completing a college education. A student's academic record and demonstrated financial need are prime factors considered in making awards.

The awards which are not based entirely upon financial need are Recognition of Merit Scholarship, Music Grants, Speech-Drama Grants, Athletic Grants, and American Indian Tuition Grants. A limited number of part-time jobs are available on a no-need basis.

Most awards are made on the basis of financial need. The Financial Aids Office follows a procedure which assures each applicant consideration for all types of awards based on the information supplied in the student's application for financial aid. An application for aid is reviewed as soon as the applicant has been accepted for admission to the College.

How to Apply — When to Apply

Students may initiate an application for financial aid by using the uniform applications available in the Colorado High Schools or by requesting a form from the College. Directions for completion are supplied with the forms. Normally, applications should be completed by April 15 for complete consideration for all awards for the fall term. Inquiries should be addressed to the Financial Aids Office, Fort Lewis College.

SERVICES TO STUDENTS

ACTIVITIES AND ORGANIZATIONS

The intent of Fort Lewis College is to equip students to live purposefully and effectively in a complex world. This is accomplished by faculty, staff, and students working together. The coordination of these activities is the function of the Office of the Dean of Students.

ATHLETICS AND RECREATION

INTERCOLLEGIATE ATHLETICS. Fort Lewis College has a comprehensive men's intercollegiate athletic program and sponsors teams in the following sports: football, basketball, wrestling, skiing, golf, tennis, and track. All Raider teams compete against four-year colleges in the Rocky Mountain and Southwestern areas. Facilities include six tennis courts, a gymnasium, football stadium, 440-yard track, and ice skating pond. Located adjacent to the campus are the municipal golf course and a ski hill. Fort Lewis is a member of the Mountain Division of the Rocky Mountain Athletic Conference, National Association of Intercollegiate Athletics, and the National Collegiate Athletic Association.

INTRAMURAL ATHLETICS. An excellent intramural athletic program is offered at Fort Lewis College. The following activities are provided: flag football, baseball, softball, basketball, track and field, tennis, golf, volleyball, badminton, wrestling, and a women's intercollegiate program.

RECREATION AND PHYSICAL EDUCATION. The physical education program for both men and women at Fort Lewis College emphasizes individual and dual sports. Facilities and equipment for golf, tennis, badminton, bowling, archery, weight training, ice skating, and skiing are available.

RELIGIOUS AFFAIRS

One of the standing committees, the Religious Affairs Committee, concerns itself with religious organizations and activities of the students. The College encourages a student to pursue the religion of his choice. Active organized groups on campus are the Newman Club, Baha'i, Raider Christian Fellowship, the Deseret Club, and the Campus Crusade for Christ.

STUDENT ORGANIZATIONS

STUDENT GOVERNMENT

The **STUDENT SENATE** of Fort Lewis College is the central agency for student policy, planning, coordinating, and budgeting for all College organizations. The Senate consists of fifteen senators elected at large by the student body. One-third of the senate members are elected each trimester for terms of one year. Many of the diverse responsibilities of the Student Senate are delegated to various standing committees and numerous temporary committees. Two of the largest committees in scope and in membership are the Student Union Board (SUB) and the Clubs and Organizations Activities Council (COAC).

The **STUDENT UNION BOARD** formulates policies for the operation of the Student Centers and coordinates and schedules events occurring in the Student Centers. Chaired by the Student Body President, this committee lists as permanent members the three student body vice presidents and three senators, as well as representatives from the Office of the Dean of Students, the Director of Auxiliary Services, and the Director of Information.

The **CLUBS AND ORGANIZATIONS ACTIVITIES COUNCIL (COAC)** membership consists of representatives of all clubs, classes, and organizations chartered or constituted through the Student Government and the College. Budgets prepared by the member groups are reviewed by COAC before being presented to the Senate Budget Committee.

The executive branch of the student government at Fort Lewis College is unique in Colorado Colleges because it consists of a Student Body President, an Executive Vice President, a Publicity Vice President, and an Activities Vice President.

The **STUDENT BODY PRESIDENT** coordinates the efforts of the legislative and executive branches and provides communication between the faculty, administration, and students.

The **EXECUTIVE VICE PRESIDENT** chairs the senate meetings and is responsible for preparing the agenda.

The **PUBLICITY VICE PRESIDENT** is responsible for overseeing the budget committee and other committees. He is also responsible for submitting reports as directed by the President.

The **ACTIVITIES VICE PRESIDENT** presides over COAC and along with the other members of the executive branch plays a major role on the Student Union Board.

The STUDENT COURT has three Court Justices. One Court Justice is elected each trimester for a term of one year, and the senior member serves as Chief Justice. Adjudication of student affairs that cannot be settled elsewhere are brought before the court by petition for a decision.

CLUBS AND ORGANIZATIONS

The CLUBS AND ORGANIZATIONS ACTIVITIES COUNCIL (COAC) is composed of all clubs and organizations on campus which serve a wide variety of student interests from writing to skiing and from history to acting. Any student who does not find an organization already formed that relates to his particular interests may start one. The possibilities are unlimited.

GUIDANCE AND PLACEMENT

CAREER PLACEMENT

The College assists its students to find permanent employment after graduation. The Placement Service located in the Office of Auxiliary Services helps students compile a set of credentials which are available to prospective employers upon request of the student. Interviews with business, industrial, and educational recruiters are arranged by the career placement service. Faculty advisors and department chairmen actively work to place their graduates.

GRADUATE SCHOOL PLACEMENT

Student faculty advisors, department chairmen, and the student personnel staff offer assistance to students applying for admission to graduate work. Students should discuss their intentions with their faculty advisors before the senior year at College.

COUNSELING SERVICES

The counseling service at Fort Lewis College offers the student the opportunity to explore and consider these problems that evolve from vocational, educational, personal, and social concerns. The counseling services' offerings include individual sessions with a professionally trained counselor; availability and use of standardized tests of interests, aptitudes, and personality characteristics; assistance in choosing an appropriate occupational field; and help in study techniques and adjustment to college life. The counseling process, individualized for each student, is designed to help him meet his particular needs as he gains a greater sense of self-understanding, effectiveness, and a sense of direction. All information gathered during the counseling process is confidential and may be released only with the student's consent.

STUDENT CONDUCT

STUDENT CONDUCT CODE

Fort Lewis College believes that learning and day-to-day living cannot be separated. They go hand in hand. Therefore, student behavior which seriously threatens the individual or the community will not be tolerated. For these reasons and for their own human and social value, high standards of personal conduct are expected of students both on and off campus. Any student who is unwilling or unable to meet these standards may be asked to leave the College. There are no voluminous rules and regulations published concerning student conduct. The College relies instead on good taste and maturity of college students and on their assumption of full adult responsibility for the consequence of their behavior.

Fort Lewis College acknowledges the fact that most students recognize the importance of self-discipline and the expectations of a mature citizen in the College community. However, the complexity of College regulations frequently confuses those students who are unfamiliar with existing rules and regulations. For this reason it is necessary to point out that a demonstrated sense of responsibility and conformity to high standards of behavior in accordance with College, City, State, and Federal regulations is expected of all students.

Any student of Fort Lewis College, who by his or her conduct in the residence halls, cafeteria, classroom, or elsewhere on or off campus demonstrates a lack of regard for the established standards by which respected citizens of the community live, will be referred to appropriate officials for such corrective action as is deemed necessary.

The Fort Lewis College Student Handbook which is published annually includes specific College policies, rules, and regulations. It also includes the policies and procedures of the Committees on Student Life and Student Discipline which informs students of their rights and responsibilities to insure due process. The Student Handbook is provided to each student and may be secured in advance of arrival on campus from the Office of the Dean of Students.

TERMINOLOGY

WARNING. In addition to other penalties, disciplinary agencies may give a warning for minor infractions. These warnings are cumulative and are considered official College actions. When a student has completed his academic program, his previous warnings are null and void.

PROBATION. Probation is a middle status between good standing and suspension or dismissal. The student remains enrolled but under stated conditions according to College policies. Probation covers a stated trial period during which it is determined whether the student is returned to good standing, having met the stated requirements, or dismissed or suspended at the end of the probation period for failure to meet the stated requirements.

SUSPENSION. Suspension is an involuntary separation of the student from the College, but it differs from dismissal in that it implies and states a time limit when return will be possible. Thus suspension may extend for one trimester or until a specified date or a stated condition is met.

DISMISSAL. Involuntary separation of the student from the College is implied by the term dismissal. It may not be a permanent separation but neither is a definite time set when return is expected. Terms having the same meaning which seem less commonly used and which could be replaced by dismissal are involuntary withdrawal, requested withdrawal, disqualification, expelled, or expulsion.

POLICY ON GUNS AND WEAPONS

Guns and other lethal weapons are not allowed on the Fort Lewis College campus. Because of accidents that have occurred, and the failure of students to comply with the policy on storage of guns on campus, this regulation is deemed necessary. Students are reminded that it is also against school policy to store guns in their cars.

POLICY ON PEACEFUL ASSEMBLY

The policy in regard to demonstrations is really a reaffirmation of the commitment of the College to the principles of a democratic society in which each individual is entitled to the rights and privileges guaranteed him by the Constitution of the United States, including the right of peaceful assembly and that of free speech.

The primary purpose of Fort Lewis College is to provide facilities for obtaining an education to its students. Any peaceful demonstration by groups exercising the right of peaceful assembly and free speech will receive the full protection of any and all administrative personnel and staff. Any student who attempts to interfere with the exercise of these rights will be subject to College disciplinary action. Conversely, if an individual participating in a demonstration impedes the freedom of movement of other individuals, or if he in any way obstructs the normal use of a building or other facility, or interferes with the normal academic processes of the College, then he too will be subject to College discipline.

All students at all times are expected to behave in accordance with the Student Conduct Code which calls for a high standard of personal behavior governed by good taste and maturity. This code warns that any student behavior which seriously threatens the individual or the community will not be tolerated.

DEAN OF STUDENTS

The Dean of Students is officially charged with encouraging and promoting high standards of conduct by all students. Through his own initiative, or through referrals made by members of the faculty, staff, or others, he considers all cases of misconduct and, to insure due process, will refer those of an especially serious nature to an appropriate committee for advice.

STUDENT HEALTH SERVICE

Student Health Service endeavors to maintain good student health through a program of preventive and therapeutic medicine. Every effort is made by the College physicians and nurse to serve the individual needs of students.

Student Health Service, an out-patient treatment center, is located near the center of the campus and residence halls. A registered nurse is on duty during the daytime hours and on call evenings and nights. The campus hours of the College physicians are posted in the Student Health Center. One of the College physicians is on call after Student Health Center hours.

Student Health Center provides general medical care and minor surgical procedures. It issues certificates of exemptions from or limitations to any required physical education program for health reasons.

All medical records are confidential. No release of information is possible without the written consent of the individual involved except in cases of public health matters in which certain reports of contagion may be required by public health officials.

Accident and sickness (hospitalization) insurance is available to all students.

Pre-entrance physical examination and a completed medical history are required of all new full-time students. Anyone registering for nine credit hours or more is considered a full-time student. Former students who return after a year's absence are required to submit a new physical examination record. Physical examination forms are supplied by the Student Health Center and the Office of Admissions and Records. The completed forms are to be returned to the Student Health Center no later than registration. Failure to meet this requirement will jeopardize the student's registration.

HOUSING

The residence halls at Fort Lewis College provide a physical environment designed to further the academic, cultural, and personal development of the student. The College assumes the responsibility of providing housing for nearly half of the student enrollment.

All residence halls are financed in such a manner that they are paid for by the students who occupy them. Because the College has a considerable financial investment in these facilities, it is necessary to manage them efficiently under the terms of a policy established by the State Board of Agriculture that assures a level of occupancy enabling Fort Lewis College to meet its financial obligation.

PROMINENT WITHIN THIS POLICY IS THE REQUIREMENT THAT ALL SINGLE STUDENTS WHO ARE UNDER 21 YEARS OF AGE WILL LIVE ON CAMPUS UNLESS THEY ARE LIVING AT HOME WITH THEIR PARENTS. Exceptions to this are very rare and the responsibility of the Dean of Students Office.

Students 21 years of age or older may live in residences of their choice. If these students desire to live on campus, they must accept the accommodations available and are subject to the same housing policies and procedures that govern all campus residents.

Fort Lewis College may be characterized as somewhat conservative or traditional in its approach to residence hall living policies. Women residents, except those upper division students in the Bader Complex, are required to observe closing hours of 11 p.m. Sunday through Thursday and 1 a.m. on Friday and Saturday. There are no coeducational living accommodations on campus. Alcoholic beverages are not permitted on campus. The use, possession, or distribution of narcotic or dangerous drugs is not permitted on campus. Each residence complex is staffed by a Head Resident and Student Assistants. It is their responsibility to promote a living environment conducive for study and wholesome living. They are there as added resources for the student as he adjusts to collegiate living at Fort Lewis College in pursuit of a successful academic career. The Student Services Staff also attempt to stimulate supplementary social activities to aid in the personal growth and development of the individual. All living is a learning experience; the Fort Lewis College residence halls program is predicated on this principle, carried out in an educationally directed manner, and dedicated to providing safe, healthy, relaxed places for all students to live. The administration does not believe that such principles are best served through elaborate facilities or completely open facilities.

The RESIDENCE HALL ASSOCIATION (RHA) includes all students, both male and female living on campus. Each of the thirteen residence halls has a council of officers who coordinate the hall activities. RHA traditionally sponsors Residence Hall Week and the Intramural Sports Program.

Students admitted to Fort Lewis College should realize they are expected to follow the housing policies as a condition of their admission to the College.

SNACK BARS

A snack bar is provided for the student body in the New Student Union. The hours vary according to demand and are posted.

STUDENT UNION GAME ROOM

Open from 12:00 noon to 10:00 p.m. 7 days a week.

COLLEGE BOOK STORE

The campus bookstore, called The Sutler's Shop, is located in the basement of the New Student Union Building. In addition, to all textbooks and supplies for all classes, the bookstore sells candies, tobaccos, jewelry, greeting cards, stationery, Fort Lewis jackets and shirts, magazines, toiletries, and various other sundries. The bookstore is designed to serve the students' needs, especially those who live on campus. The hours are 8 a.m. to 5 p.m., Monday through Friday.

IDENTIFICATION CARDS

Identification and activity cards are required of all students and are available in helping a student establish his identification for cashing checks and for admission to many campus events.

MAIL SERVICE

A post office is maintained in the New Student Union for the convenience of the students. Students living on campus have their mail delivered to the residence halls. **STUDENTS LIVING OFF CAMPUS SHOULD OBTAIN A POSTAL BOX AT THE COLLEGE POST OFFICE UNLESS THEIR PERMANENT ADDRESS IS DURANGO.**

MOTOR VEHICLES

All students are permitted to have their cars on campus, although freshmen often find that the ready availability of a car has been a contributing factor to a poor academic record. The student faculty advisor, the Academic Standards Committee, or the Dean of Students may restrict the use of an automobile if excessive use appears to be resulting in poor grades or other misuse.

Students must register and pay the scheduled fees for their automobiles with the Campus Security Officer during the official registration period. Campus traffic and parking regulations are distributed at the time of registration.

Currently the registration fee is \$12. Students using campus parking lots are assessed this fee to pay for the construction and maintenance of parking lots, since it is the policy of the State of Colorado not to build parking lots with state funds. All parking sticker permits are pro-rated at the rate of \$1.00 per month from the time of the student's first registration until August 31 of the academic year.

ACADEMIC INFORMATION

PROGRAMS OF STUDY

The academic program is organized in three schools and one center: Arts and Sciences, Business Administration, Education, and the Center of Southwest Studies.

The School of Arts and Sciences offers work in Agriculture, Anthropology, Art, Biology, Chemistry, Engineering, English, Forestry, French, Geology, German, History, Industrial Arts, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Sociology, Spanish, Speech, and Theater, as well as interdisciplinary work in the Humanities and the Physical Sciences. The School of Business Administration offers work in Accounting, Business Administration, Business Education, Economics, and Secretarial Science. The School of Education handles the professional preparation of teachers, both elementary and secondary; it also offers work in Psychology and Physical Education.

The Center of Southwest Studies is a unique part of Fort Lewis, providing for area studies in the Southwestern part of the United States and its relation to Latin America. The course work for this program is drawn mostly from Anthropology, Spanish, and History.

BACHELOR'S DEGREE

The College offers a number of programs leading to the bachelor's degree. When the College was first organized as a senior college in 1962, it began with seven degree majors; a number of new majors have been added recently, bringing the total now to twenty-one. The Bachelor of Science Degree is offered in Biology, Chemistry, Geology, and Physical Sciences. The Bachelor of Arts Degree is granted in all other four-year programs offered. Except for the major field, all requirements are the same for both bachelors degrees.

Suited to a wide variety of student needs, Fort Lewis programs prepare students for employment in business and industry, for graduate school, for teaching, and for professional schools such as law, dentistry, and medicine. Graduate school is recommended for those who plan to teach at the college or university level, as well as for certain positions in government work, business, and social service.

ASSOCIATE OF ARTS DEGREE

The College offers a program leading to the Associate of Arts degree in Secretarial Science, offered by the School of Business Administration. The requirements for this degree are given with the course listings under Business Education.

PROGRAMS IN COOPERATION WITH OTHER INSTITUTIONS

Since Fort Lewis College was at one time a branch of Colorado State University and is still under the same board of control, a fine relationship continues between the two institutions. Because of this relationship, Fort Lewis is able to offer programs in agriculture, forestry, and engineering. In these fields a student may take two years of work at Fort Lewis; if he follows the prescribed program and maintains a "C" average, his work will be accepted in a block toward these programs as a junior transfer to Colorado State University. (Of course these programs are transferable to other schools as well but on a course-by-course evaluation.) In the case of engineering, Fort Lewis also offers the student a 3-2 cooperative plan. In this case a student takes three years at Fort Lewis followed by two years at Colorado State University. At the end of the period he receives a degree from Fort Lewis in mathematics and a degree from Colorado State University in engineering.

The Biology Department also has arranged a cooperative medical technology program with two Colorado teaching hospitals.

ELEMENTARY AND SECONDARY TEACHING

The Fort Lewis School of Education offers programs leading to certification in elementary education and a wide variety of secondary teaching fields. The programs of study have been approved by the Colorado State Board of Teacher Education.

THE INTERCULTURAL PROGRAM

Fort Lewis College is operating a special program for college students of bilingual and bicultural backgrounds. Referred to as the Intercultural Program, its purpose is to assist students in overcoming difficulties encountered at the college level due to culturally related circumstances.

Operating primarily in behalf of American Indian, Spanish American, and foreign students, the Intercultural Program has a staff specializing in the areas of bilingual English and mathematics. A non-credit intensive English course is provided for students extremely deficient in the English language. For students who need help in acquiring the fluency expected in college-level English, a credit course in Modern English language is offered. Help sessions and extended class times, as needed, are provided the students in the beginning courses of the college mathematics program.

Counseling and advisory services are available regarding personal problems, selection of courses, and other matters pertaining

to the personal and academic needs of the students. Tutorial help is offered in nearly all of the major subject areas in cooperation with the college instructors.

During the summer months a six-week pre-college orientation program is held on campus for 100 selected college-bound students for the purpose of familiarizing the students with and preparing them for entrance into the college or university of their choice. Intensive non-credit courses in English, mathematics, and orientation to college are given the students. Particular attention is focused on the development of good study habits during this pre-college experience.

STUDENT AND FACULTY EXCHANGES: INTERNATIONAL AND FIELD EXPERIENCES

Fort Lewis College is aware that some of the most valuable educational experiences in the lives of students and professors come from study abroad or in another part of the United States. Facts and theories learned on campus can also be illumined by field trips to geological sites, Indian reservations, or community institutions.

The College has made a start in these matters by entering formal exchange arrangements with Concordia College, Moorhead, Minnesota, and Virginia Union University, Richmond, Virginia. Students in limited numbers can study with complete exchange of credits on the other campus. Joint, team-taught intensive seminars are also part of the exchange. The two-week seminar on *American Indian Culture* in May, 1971, on the Fort Lewis campus and a similar seminar on *Urban Problems* at the same time on the Virginia Union campus are examples. Special projects in May are another example.

A faculty-student committee seeks to guide and encourage such activities. Further information may be obtained from the office of the Dean of Faculty.

COOPERATIVE EDUCATION

Cooperative Education is a program whereby the College obtains career-related or career-exploratory employment for a student for a semester. In this program the student learns on the job for a term and then returns to campus for further classroom learning. The job experience is intended to sharpen and make more meaningful the follow-up classroom study. This is one of the new directions the College is exploring in the continuing evolution of opportunities for students to devise programs of study and combinations of experience which will make their education more varied,

stimulating, and useful. The co-op option is one of the ways of seeking the complex mix of experience and theory which students need in their preparation for their careers and their life as citizens. It is a choice to go out from the campus for one or more terms to seek in other places and in the context of other events, the same kind of learning and synthesis of theory and practice which underlies the curriculum of the College, and the student's study on the campus. In the course of this educational adventure, the student discovers different paces, different tasks and different points of view than those which are peculiar to the academy. He integrates this learning into his own educational goals with the advice and counsel of the Faculty, both before he departs for the off-campus term and after he returns. From this increased awareness of the complexity of the world in which he is a citizen, he brings back to both the college community and to his specific educational pursuits, an increase in practical knowledge gained from the vantage point of his co-op work and from living on his own in a new setting. Thus, in terms of general education, he becomes a more experienced and mature citizen; in terms of his field preparation, he becomes more skilled and capable as a result of working in situations which often provide facilities which are more elaborate and sophisticated than a college can generally afford, either in equipment or in situation.

The program is open to all students of the College. The planning necessary for a term away from the campus usually means a student will not have a co-op term before the beginning of his second year. Placement for the co-op term is arranged by personnel of the Co-operative Education Program with cooperating employers throughout the Southwest. Students may also petition for co-op status and credit for jobs they secure themselves or for project terms which involve taking advantage of unusual opportunities off-campus. Credit is arranged for the co-op term in consultation with the Director of the Program and the student's adviser, and with the concurrence of the departments, School Directors, and the Dean of Faculty. Credit is dependent on evaluation of performance by the employer, preparation of a major paper on some aspect of the co-op term, and joint evaluation of the paper and the student's growth by the student's adviser and the Director of The Cooperative Education Program.

Since planning for a co-op term takes a good deal of time, and must involve people both on the campus and others in cities and situations at some distance, a student who wishes to take advantage of the Co-op Option should initiate this planning at least a term in advance.

ADULT EDUCATION

The College schedules many of its regular classes in the late afternoon and evening to accommodate Durango area residents

who may wish to start work on a degree or to complete the requirements for a degree, but who find it difficult to come on campus in mid-day. Fort Lewis is also prepared to offer specialized or hobby courses where sufficient interest exists. Inquiries on adult education should be addressed to the Assistant Dean of Faculty.

REQUIREMENTS FOR GRADUATION

GENERAL REQUIREMENTS

Each student works out his program of study in cooperation with his faculty adviser at the beginning of each semester to assure that the courses selected make for progression toward a degree. The student receives help and advice in selecting the courses required for a degree, but he has the responsibility for meeting the graduation requirements.

Each candidate for graduation must complete a minimum of 128 credit hours, 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 his major course of study.

Candidates for bachelors degrees have three basic parts to their program: general studies, a major, and electives. Each candidate must complete a minimum of 41 credit hours in the general studies program to be chosen as outlined below, and 30 credit hours minimum in a field of specialization, called the major. The balance of the 128 hours 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 certification.

In addition, each candidate for graduation must complete a minimum of 28 credit hours in upper-division courses on campus. Among the 128 credit hours required for the degree, no more than 28 credit hours will be accepted for work completed by correspondence, extension, and broadcast educational television.

A course offered in substitution of a required course and the request that a requirement be waived must have the approval of the faculty adviser, the department chairman, and the School Director and the Dean of Faculty.

A student who already holds a bachelor's degree, and for special reasons desires to secure an additional bachelor's degree, must earn 28 hours at Fort Lewis College beyond any other bachelor's degree he now holds, and fulfill all general graduation requirements and the specific requirements for the major chosen.

GENERAL STUDIES

As a liberal arts college, Fort Lewis requires a broad background of 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 adviser in choosing a general studies program best suited to his own needs and interests.

I. SKILLS REQUIREMENTS

Every beginning freshman will take a freshman seminar in each of his first two semesters at Fort Lewis. (Freshmen in the Intercultural Program may postpone their first seminar for one or two semesters if this is recommended by their advisers.) The two seminars are to be chosen from different fields. They are offered in a wide variety of fields and are intended to develop at the beginning of a student's college career both research and communication skills.

II. THE LIBERAL ARTS

DISTRIBUTION REQUIREMENTS

The groups below indicate the number of courses required in each group. There are many choices. The listing is by academic field in most cases, and any course in the field may be chosen with the exceptions noted in parentheses. However, some courses will be recommended by the departments above others, and any course with a prerequisite may not be taken without first fulfilling the prerequisite. Furthermore, courses of less than three hours' credit will not meet these requirements, except where there are laboratory activities related to other courses taken at the same time.

Group A. VALUE STRUCTURE

Three courses must be chosen, at least one from each sub group.

1. English (except Engl 189, Engl 208, and courses numbered below Engl 125.)
Speech (except Engl 121)
Foreign Language
2. Art (except Art 203)
Music (except Mu 314, Mu 315, Mu 316)
Theatre

Group B. QUANTITATIVE AND NATURAL SCIENCE

Three courses required; at least one must be a natural science with laboratory; the three must be chosen from at least two different fields.

- Biology
- Chemistry
- Geology
- Physics
- Mathematics (except Math 91)

The following individual courses outside these fields may also be chosen:

Statistics (BA 251, 252)

Logic (Phil 271)

The Physical Sciences (Phy Sc 105)

Group C. FOUNDATIONS OF SOCIETY

Two courses required.

History

Philosophy (except Phil 271)

Anthropology

Group D. SOCIAL STRUCTURE AND BEHAVIOR

Two courses required.

Economics

Political Science

Psychology (except Psych 218)

Sociology

SPECIAL STIPULATIONS FOR DISTRIBUTION REQUIREMENTS

1. At least one course used to meet the distribution requirements must be a non-Western or Latin American course. Such courses may be found in the following academic fields: Literature, Art, Music, Economics, Political Science, Sociology, Anthropology, History, and Philosophy. A list of specific courses will be published at registration time. Also, a semester or more of appropriate foreign experience whether or not it is in a non-Western country will meet the requirement.
2. No course may count for both the Distribution Requirements and the major except in cases of majors having courses covering more than one academic field.

III. PHYSICAL EDUCATION

Two activity courses of one credit hour each required; the two must be in different activities.

MAJORS

All students seeking baccalaureate degrees must select a major area of study for specialization. The College now offers majors in Biology, Chemistry, Geology, Physical Sciences, Anthropology, Art, English, History, Humanities, Mathematics, Music, Political Science, Spanish, Accounting, Business Administration, Business Education, Economics, Elementary Education, Physical Education, Psychology, and Southwest Studies. In addition to these regular majors the College has established a procedure whereby a student with a special purpose may construct his own major. This ordinarily will be of an interdisciplinary character and should be worked out with an adviser and submitted to the Curriculum Committee for approval not later than the end of the sophomore year.

ELECTIVE COURSES

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

ACADEMIC PERFORMANCE

ATTENDANCE

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

AUDITING PRIVILEGES

A student may audit courses with the permission of the instructor if he desires to attend classes regularly but does not wish to receive grades and credit.

Upon registration, the student must declare whether he wishes to take a course for audit or for credit. A student may not change from audit to credit basis, or vice versa, after the closing date for adding classes in each trimester. When registering, a student may take both audit and credit courses but the total should not exceed a normal load.

A student auditing courses is 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.

REGULAR AND LATE REGISTRATION

Registration for each trimester immediately precedes the beginning of classes for that trimester.

Advanced registration periods and terminal dates for registration are announced each trimester. A fee is charged for late registration.

CHANGES IN PROGRAMS OF STUDY

The College reserves the right to cancel a class if enrollment in that class is not deemed sufficient.

Once a student has registered for a given set of classes, records are established, and no courses are dropped from, or added to, a student's official registration except on forms provided by the Office of Admissions and Records. Such changes are the responsibility of the individual student; he must make arrangements with the Office of Admissions and Records, with his faculty adviser, and with the instructors concerned. There is a fee charged for making changes.

With the consent of the adviser and the instructors, courses may be added during the first week and a half following registration.

With the consent of the adviser and the instructors, courses may be dropped at any time during the semester. However, a grade of W or F will be recorded at the discretion of the instructor. A student seeking to drop courses after the second week of the semester should inquire about his grade from the instructor before dropping a course.

A student who desires to withdraw from College entirely must go through an official withdrawal procedure starting with the Dean of Students' Office. Failure to do so leaves the student liable to a record of total failures for the semester.

CLASSIFICATION OF STUDENTS

A **REGULAR STUDENT** is one who has been admitted to the College and who has declared his intention to pursue the requirements for the baccalaureate or associate of arts degree.

An **UNCLASSIFIED STUDENT** is one who has been permitted to enroll but who does not intend to work toward a degree.

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

Freshman	Less than 28 semester hours
Sophomore	28-59 semester hours
Junior	60-91 semester hours
Senior	92 or more semester hours

CREDIT FOR MILITARY SERVICE

Credit for military service may be allowed according to the recommendations established by the American Council on Education.

CREDIT THROUGH SPECIAL EXAMINATION

Credit for some courses may be earned by special examination. Application should be made to the chairman of the appropriate department. A student may receive no more than 30 semester hours of credit by special examination.

EXAMINATIONS

The number and type of examinations in any particular course are determined by the instructor. Separate days are set aside for the final examinations that come 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.

GRADING

The following grading pattern is used in the evaluation of academic work:

A	Excellent	D	Passing
B	Very Good	F	Failure
C	Satisfactory		

The grade of I means that the student's work is incomplete and additional time has been granted. It is the student's responsibility to make up the work in order to remove the grade of I. An appropriate grade will be recorded by the instructor if and when the work is completed.

The grade of X means the student has passed a course by special examination.

The grade of P means that the student has passed a course on a Pass-Fail basis.

The grade of W signifies that the student has withdrawn from the course. Each instructor will determine the circumstances under which such a grade may be given.

The grade of S (Satisfactory) means that the student in Math 91 or Math 92 has successfully passed the course but that the credit earned does not satisfy any graduation requirement nor is the grade figured in the grade point average.

The grade of NC (No Credit) means that the student in Math 91 or Math 92 has not passed the course. No credit is given nor is the grade figured in the grade point average.

For a number of usages the quality of a student's work is appraised according to grade point averages. Fort Lewis uses the 4-point system, which assesses grade points as follows:

A	4 points	D	1 point
B	3 points	F	0 points
C	2 points		

The grade point average, carried to one decimal point, will be computed by dividing the total number of grade points by the total number of credit hours. Grades of P and W do not affect the grade point average.

When a student repeats a course the credit will count only once and only the last grade will be counted in the grade point average.

Grade reports are ordinarily mailed to the parents and guardians of students but may be received directly by self-supporting students upon request.

DEAN'S LIST

The Dean's List is published at the end of each semester honoring students of high scholastic achievement. Students who attain a grade point average of 3.2 or better on not less than 12 hours and have completed all work for which they are registered by the end of the semester will be listed for that semester.

GRADUATION WITH HONORS

To be eligible for honors, the student must have earned in residence at Fort Lewis at least the same number of credit hours that are required for his major. 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.

INDEPENDENT STUDY

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, a student must have the approval of his adviser, his Department Chairman, the Department Chairman 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 major field.

No more than two independent studies outside of the student's major field may be taken for credit.

PASS-FAIL ELECTIVES

A student with at least a C cumulative average is permitted to take up to four Pass-Fail electives during his 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. The student may

take no more than one Pass-Fail elective in any one trimester and no more than 18 hours may be taken during the term he is carrying the Pass-Fail elective. A Freshman may not choose a course on this basis before his second term. The student 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.

SATISFACTORY PROGRESS

Full-time students generally have two trimesters to make proper academic adjustment to college, but anyone not doing satisfactory academic work may receive a warning notice earlier.

An over-all grade of "C" is considered to constitute satisfactory progress toward a degree. A grade-point average of less than "C" marks unsatisfactory progress and may result in a student being warned or suspended or dismissed from College. A student who has been suspended may apply for readmission after completion of his suspension period. However, such petition does not guarantee readmission.

STUDY LOAD

The normal student load in a given trimester is 16 credit hours. A three-hour course will customarily be taught three hours per week, a five-hour course, five hours per week.

The maximum regular load is 18 hours in a trimester. If a student wants to take more than this he must obtain permission from his adviser and his School Director. A student should plan to spend a minimum of two hours of outside preparation for every hour of classroom or laboratory attendance.

TRANSCRIPTS

The first transcript (record of grades) for a Fort Lewis College student is supplied free of charge. A charge is made for additional transcripts. All accounts with Fort Lewis must be settled before a transcript may be issued.

COURSES OF STUDY

The figures after each course have the following meanings: the first figure in the parentheses refers to hours spent in lecture or seminar sessions each week, the second to hours spent in the laboratory or in practical work each week. The figure outside the parentheses refers to semester credit hours. Disciplines appear alphabetically according to school and the schools themselves are in alphabetical order beginning with the School of Arts and Sciences.

Courses are numbered on four levels. 100-199 indicate the courses with these numbers are intended primarily for freshmen, 200-299 primarily for sophomores, 300-399 primarily for juniors, and 400-499 primarily for seniors. However, a student may freely choose courses one level above or below his own classification if he has the proper prerequisites. He may choose a course more than one level removed from his own classification only with the consent of the instructor of the course. A few courses are numbered below 100. These do not count toward graduation. Courses numbered below 300 are called lower division courses while those 300 and above are known as upper division.

The courses offered are listed by Schools except that those listed below are not confined to any one School.

FS 101, 102 FRESHMAN SEMINAR (4-0) 4

Freshman Seminars are offered in a variety of fields of study. They are problem-centered courses, the central purpose of which is to teach scholarly procedures and attitudes to students at the beginning of their college careers. The problem for research will vary from term to term. Each instructor will choose the problem for his seminar; he may consult his students on the choice. The seminars will emphasize both research techniques and communication skills. Students will write frequent papers and give and defend oral reports. These will be graded for English and oral presentation as well as content pertinent to the seminar problem. Each beginning freshman will take a seminar in his first semester at Fort Lewis College and a second in his next semester. These must be chosen from different disciplinary fields. Seminars have limited enrollments so that the individual student can express himself and can receive personal attention.

*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.

GENERAL STUDIES 200

(3-0) 3

Seminar in interdisciplinary studies. Offered on sufficient demand. May be repeated to a maximum of nine hours.

Prerequisite: Consent of instructor (s).

390 SPECIAL TOPICS

This is not a fixed course but is a designation to take advantage of special situations. It can be offered in any department with consent of the School Director and Dean of Faculty. Credit may vary from 1-6 hours, according to the topic.

SCHOOL OF ARTS AND SCIENCES

PROGRAMS IN:

ANTHROPOLOGY AND SOCIOLOGY

ART AND INDUSTRIAL ARTS

BIOLOGY, AGRICULTURE, AND FORESTRY

CHEMISTRY

ENGLISH, SPEECH, AND THEATRE

FOREIGN LANGUAGES

GEOLOGY

HISTORY, POLITICAL SCIENCE, AND
PHILOSOPHY

HUMANITIES (INTERDISCIPLINARY)

MATHEMATICS

"What we . . . aim at producing is men who possess both culture and expert knowledge in some special direction. Their expert knowledge will give them the ground to start from, and their culture will lead them as deep as philosophy and as high as art . . ."

[Alfred North Whitehead,
The Aims of Education]

MUSIC

PHYSICAL SCIENCES
(INTERDISCIPLINARY)

PHYSICS AND ENGINEERING

The School of Arts and Sciences

Director—Archie Jones

The Departments :

Anthropology and Sociology—John C. Ives, Chairman

Art and Industrial Arts—Stanton Englehart, Chairman

Biology, Agriculture, and Forestry—Herbert E. Owen,
Chairman

Chemistry—E. Merle Harrison, Chairman

English, Speech, and Theatre—Maynard G. Fox, Chairman

Foreign Languages—Maria Delaney, Chairman

Geology—Frank O. Bowman, Jr., Chairman

History, Political Science, and Philosophy—Robert Delaney,
Chairman

Mathematics—Larry S. Johnson, Chairman

Music—Ralph A. Downey, Chairman

Physics and Engineering—Randall D. Taylor, Chairman

The various academic programs in the School are administered through the above structure, but for easy reference the separate curricula are listed alphabetically.

AGRICULTURE

Assistant Professors Robert Marquiss, Howard D. Moore;
Instructor Joseph C. Crownover.

The agricultural program at Fort Lewis College offers the equivalent of the first two years at an agricultural college while also providing the student with a liberal arts background. This is not a terminal program, but it is possible for a student to transfer all of his credits to Colorado State University provided he has earned a C or better in each course. He may, of course, transfer to other agricultural schools as well.

COURSE OFFERINGS

- Ag 101 INTRODUCTION TO LIVESTOCK (4-3) 5
Introduces the student to the basic elements of animal husbandry with emphasis on beef, sheep, swine, and dairy production.
- Ag 102 FORAGE AND CROP PRODUCTION (4-3) 5
Principles of forage and field crop production. Crops in Colorado are stressed.
Prerequisite: Biology 102.
- Ag 231 RANGE AND PASTURE MANAGEMENT (4-3) 5
A study of the management, development, and utilization of range land and pasture and a short survey of the more common poisonous plants.
Prerequisites: Biology 102 and Ag 102.
- Ag 235 SOILS (3-2) 4
A basic course dealing with formation, properties, and management of soils with special attention given to soil conditions that affect moisture relations and elementary fertility analysis.
- Ag 240 FEEDS AND FEEDING (3-3) 4
A study of the principles of feeding livestock with emphasis on the use of feeds available in the western states.
Prerequisite: permission of instructor.
- Ag 250 FARM MANAGEMENT (3-0) 3
Basic economic principles applied to farm and ranch operations.
- Ag 473 MAMMALIAN PHYSIOLOGY (3-3) 4
See Biology 473.

ANTHROPOLOGY

Professor John C. Ives; Assistant Professor Katharine W. Hulbert.

Fort Lewis College offers a program of courses leading to the Bachelor of Arts degree with a major in Anthropology. In addition, a range of courses is offered to serve the interests of the College as a whole, especially as electives in the broad liberal arts tradition. The scope is such that the needs of the amateur archaeologist as well as those engaged in the scholarly study of ethnic groups are served.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ANTHROPOLOGY

General Studies	41
<i>Specific Departmental Requirements</i>	
Anth 151 Introduction to Anthropology	3
Anth 201 Physical Anthropology	3
Anth 496 Seminar or	
Anth 499 Independent Study	2
	8
<i>Other Departmental Requirements</i>	
One course in Cultural Anthropology	
One course in Archaeology or Prehistory	
One laboratory (in either Archaeology or Physical Anthropology)	24
Plus Anthropology electives to total	32
<i>Electives</i>	55
TOTAL REQUIREMENTS FOR GRADUATION	128

COURSE OFFERINGS

Anth 151	INTRODUCTION TO ANTHROPOLOGY (3-0) 3	A comprehensive study of general anthropology.
Anth 201	PHYSICAL ANTHROPOLOGY, PART I: (3-0) 3	HUMAN EVOLUTION A review of the fossil evidence for human evolution, human and infra-human primate anatomy. May be elected as a first course in Anthropology.
Anth 201L	PHYSICAL ANTHROPOLOGY, PART I: (0-2) 1	LABORATORY Human skeletal identification, supplemental to Physical Anthropology, Part I. May be taken concurrent with, or following Anth 201.
Anth 211	PRIMITIVE CULTURES (3-0) 3	An ethnographic survey of the peoples and cultures of Africa, Eurasia, and Oceania and the New World.
Anth 215	PRIMITIVE RELIGION (3-0) 3	A study of religious behavior in non-literate societies.
Anth 231	ARCHAEOLOGY OF THE SOUTHWEST, (3-0) 3	PART I: THE SAN JUAN PUEBLOS The development of the Pueblo dwelling peoples of the Four Corners Area.

- Anth 231L ARCHAEOLOGY OF THE SOUTHWEST, (0-2) 1
 PART I: LABORATORY
 Laboratory - Part I is designed to go with Part I of
 Archaeology of the Southwest lectures.
Prerequisite: concurrent with Anth 231 or following
 Anth 231 or Anth 259.
- Anth 259 FIELD TRAINING IN ARCHAEOLOGY (0-6) 6
 Actual excavation in the field with instruction in the
 various techniques of archaeology. The student will
 spend all day, five days a week, in the field. Due to the
 necessity of limiting enrollment, preference will be
 given to students who have taken Anth 231 and to stu-
 dents in their last year. The course is, however, open
 to and suitable for all students.
- Anth 276 FOLKLORE OF THE SOUTHWEST (3-0) 3
 See English 276.
- Anth 301 PHYSICAL ANTHROPOLOGY, PART II: (3-0) 3
 PRINCIPLES OF ON-GOING EVOLUTION
 Man's adaptation to the physical environment as modi-
 fied by man's culture and the range of human genetic
 variability.
Prerequisite: consent of instructor.
- Anth 301L PHYSICAL ANTHROPOLOGY, PART II: (0-2) 1
 LABORATORY
 An introduction to statistical techniques and genetic
 problems supplemental to Physical Anthropology, Part
 II. May be taken concurrent with or following Anth
 301.
- Anth 321 TOPICS IN ETHNOGRAPHY (3-0) 3
 A survey of a particular culture area of the world. May
 be repeated for different topics.
- Anth 331 ARCHAEOLOGY OF THE SOUTHWEST, (3-0) 3
 PART II: THE HOHOKAM & MOGOLLON
 CULTURES
 The development of the Hohokam and Mogollon cul-
 tures in the southern Southwest. A study of archae-
 ological interpretations and method as applied to the
 Southwestern United States.
Prerequisite: Anth 231, or consent of instructor.
- Anth 331L ARCHAEOLOGY OF THE SOUTHWEST, (0-2) 1
 PART II: LABORATORY
 Part II is designed to go with Part II Archaeology of
 the Southwest lectures.
Prerequisite: Anth 231L or consent of instructor.

- Anth 341 PREHISTORY (3-0) 3
The development of Old World culture from the Old Stone Age through the Iron Age.
- Anth 361 THE NORTH AMERICAN INDIAN (3-0) 3
Archaeology, ethnology, and linguistic relationships of the Indians of North America.
- Anth 368 CULTURE AND PERSONALITY (3-0) 3
See Psych 368.
- Anth 401 ADVANCED TOPICS IN ANTHROPOLOGY 2-6
Various topics will be given. May be repeated for a different topic.
Prerequisites: Junior or Senior standing (unless by consent of instructor) and a minimum of two courses in Anthropology.
- Anth 451 SOCIAL ANTHROPOLOGY (3-0) 3
Contemporary theories of the social aspects of man's culture are emphasized. Problems of data gathering and analysis are considered.
Prerequisite: any course dealing with social or cultural anthropology, or consent of instructor.
- Anth 496 SEMINAR (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Anth 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

ART

Associate Professor Stanton Englehart; Assistant Professor C. Gerald Wells; Instructor Mick Reber.

The Art Department attempts to increase the student's awareness and understanding of art and its relationship to society. The Art major prepares the student to be a practicing artist, to enter graduate school for further professional training, or to teach art on the elementary or secondary levels. The Department also serves majors from other disciplines who select art as a minor field. The department welcomes those students who wish to elect art courses as a means of achieving a greater sense of personal sensitivity and awareness.

There is a continuous schedule of student and professional shows for the benefit of the college and the general public. This department is of service to the general public through participation in the Adult Education program.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ART

General Studies		41
<i>Specific Departmental Requirements</i>		
Art 210 Art History		3
Art 211 Art History		3
Art 401 Theory and Aesthetics		3
Art 496 Seminar		
or		
Art 499 Independent Study		2
		11
<i>Other Departmental Requirements</i>		
21 hours from the remainder of Art offerings with the exception of		
Art 203 Art for Elementary Teachers		21
		32
		32
<i>Electives</i>		55
TOTAL REQUIRED FOR GRADUATION		128

MINOR FOR SECONDARY TEACHERS

Students desiring to teach will take the required education courses. If Art is selected as a minor area, the student will select 20 hours from the Art offerings.

COURSE OFFERINGS

Art 101	DRAWING	(0-6)	3
	Practice in problems of technique, perspective, color, design, and basics of composition. Subject matter to deal with still life, landscape, animals and the human figure. (Course work in this area offered at the beginning and advanced levels.)		
Art 102	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. (Course work in this area offered at the beginning and advanced levels.)		

- Art 104 BASIC DESIGN (0-6) 3
 An elementary course in the principles of composition utilizing line, mass, and color theory with emphasis on space and formal design related to both art and industrial art. An introduction to the basic tools and materials of both areas.
- Art 105 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.
- Art 201 DRAWING (0-6) 3
 A continuation of Art 101 but with emphasis placed on drawings of the human figure.
Prerequisite: Art 101.
- Art 202 PAINTING (0-6) 3
 A continuation of Art 102.
Prerequisite: Art 102.
- Art 203 ART FOR ELEMENTARY TEACHERS (3-0) 3
 Contemporary and historical concepts, practices, and methods used in the elementary school art program.
- Art 204 TWO AND THREE DIMENSIONAL SCULPTURE (0-6) 3
 A course in two-dimensional design in bas-relief. It consists of modeling in plastic materials as well as carving and shaping more rigid and resistant materials such as wood, metal and stone.
- Art 206 CERAMICS (0-6) 3
 A continuation of Art 105.
Prerequisite: Art 105.
- Art 210 ART HISTORY TO THE RENAISSANCE (3-0) 3
 History and appreciation of painting, sculpture, and architecture. These forms will be studied through their relationships to each other and to the societies which produced them.
- Art 211 ART HISTORY FROM THE RENAISSANCE (3-0) 3
 A continuation of Art 210.
- Art 301 DRAWING (0-6) 3
 A continuation of Art 201.
Prerequisites: Art 101, 201.
- Art 302 PAINTING (0-6) 3
 A continuation of Art 202.
Prerequisites: Art 102, Art 202.

Art 303	ADVANCED STUDIO Special Topics. <i>Prerequisite:</i> consent of instructor.	(0-6) 3
Art 307	ART: FORMS AND IDEAS Philosophical inquiry, by topic, into the formal nature of the visual arts and their meanings. Historical art forms will be compared with contemporary patterns of form and thought.	(3-0) 3
Art 401	THEORY AND AESTHETICS Appreciation and understanding of various art forms through the study of aesthetics.	(3-0) 3
Art 403	ADVANCED STUDIO Special Topics. <i>Prerequisite:</i> consent of instructor.	(0-6) 3
Art 404	ADVANCED STUDIO Special Topics. <i>Prerequisite:</i> consent of instructor.	(0-6) 3
Art 496	SEMINAR Students prepare and present library research papers. <i>Prerequisite:</i> consent of instructor.	(2-0) 2
Art 499	INDEPENDENT STUDY Individual research is conducted under the supervision of a faculty member. <i>Prerequisite:</i> approval of Department Chairman.	1-3

BIOLOGY

Professor Herbert E. Owen; Associate Professors James G. Erickson, Albert W. Spencer; Assistant Professors John E. Dever, Jr., Richard G. Keator; Instructor Lee P. Somers III.

The Biology curriculum is designed to fit the needs of many types of students. Although all of the tracks within the course structure lead to a Bachelor of Science degree in Biology, there are two major avenues, each with variations, leading to the degree: General Biology and Natural History. Students expecting to teach biology at the secondary school level, or entering pre-professional training for such areas as medicine, dentistry, and veterinary medicine, and students enrolled in the cooperative program in medical technology are expected to take the General Biology track.

The Natural History track is particularly valuable for those students who plan to work for the National Parks Service or some other such governmental agency. It may also be used by prospec-

tive secondary teachers, although usually the General Biology is better for this purpose.

There is a considerable demand from both government and industry for people trained in the biological sciences and for which a bachelor's degree is sufficient. Careers may be found in government service with the Food and Drug Administration and with a variety of conservation and recreation agencies. Laboratory and development work is available with the aerospace industry and with several government agencies. A few sales positions, especially for pharmaceutical houses, require a biology background. Many biologist positions require a graduate degree for which a liberal arts biology major is an excellent background.

GENERAL BIOLOGY CURRICULUM

A student selecting General Biology must complete the following courses:

General Studies 41

Specific Departmental Requirements

Bio 101 Laboratory Experiences in Biology	1	
Bio 101 General Biology	3	
Bio 102 General Botany	4	
Bio 103 General Zoology	4	
Bio 371 Genetics	4	
Other Biology Courses	19	
Bio 496 Seminar or Bio 499 Independent Study	2	
	37	37

(At least two biology courses in the 300 series, and one in the 400 series, other than 496 and 499, must be taken.)

Auxiliary Requirements from Other Departments

Four trimesters of chemistry 18-20 18-20

Electives 30-32

TOTAL REQUIRED FOR GRADUATION 128

The student is strongly urged to take one year of German or French, Advanced Composition (Engl 263), physics and mathematics. Additional courses in mathematics and the physical sciences will be useful in graduate school.

NATURAL HISTORY CURRICULUM

A student selecting Natural History must complete the following courses:

General Studies		41
<i>Specific Departmental Requirements</i>		
Bio 100 Laboratory Experiences in Biology	1	
Bio 101 General Biology	3	
Bio 102 General Botany	4	
Bio 103 General Zoology	4	
Bio 201 Systematic Botany	4	
Bio 203 Field Zoology	5	
Bio 471 Ecology	5	
Bio 496 Seminar or Bio 499 Independent Study	2	
Other biology credit hours	8	
	36	36
(At least two biology courses in the 300 series, and one in the 400 series, other than 496 and 499, must be taken.)		
<i>Auxiliary Requirements from Other Departments</i>		
Three courses in one of the following fields:		
Anthropology, Chemistry, Geology, Mathematics, Physics		9-12
<i>Electives</i>		39-42
TOTAL REQUIRED FOR GRADUATION		128

SECONDARY EDUCATION

A student planning to enter the secondary education field in biology should take the General Biology curriculum and plan his biology electives in such a way as to insure that he has as broad a background in both botany and zoology as possible. He should also take the education courses required.

MINOR FOR SECONDARY TEACHERS

Bio 100 Laboratory Experiences in Biology	1	
Bio 101 General Biology	3	
Bio 102 General Botany	4	
Bio 103 General Zoology	4	
Approved Biology Electives	11	
	23	

MEDICAL TECHNOLOGY

Fort Lewis College offers a Medical Technology program in affiliation with the Colorado State Hospital School of Medical Technology of Pueblo and St. Mary's Hospital of Grand Junction which enables a student to receive both a Bachelor of Science degree and a certificate in Medical Technology. Students spend six trimesters at Fort Lewis College, completing 90 hours and are then eligible to apply for a 12-month training program at Colorado State Hospital. Dr. James G. Erickson, Associate Professor of Biology, is the adviser for the program. Students entering this program must complete, in addition to the normal requirements for the General Biology curriculum, the following courses:

Bio 231 Comparative Anatomy	4
Bio 331 Microbiology	4
Approved course in Mathematics	3
Physics—one course	5
Biology—approved elective	4

PRE-MEDICAL, PRE-VETERINARY MEDICINE, AND PRE-DENTAL STUDIES

Most medical schools require a baccalaureate degree as an entrance requirement. So do many schools of veterinary medicine and dentistry. Many students preparing for these professions specialize in chemistry or in biology, but some major in totally different fields.

PREPARATION FOR GRADUATE SCHOOL

Students majoring in biology who plan to earn advanced degrees will be required to complete the general and departmental requirements for the bachelor's degree. In addition, their preparation for graduate school should include the following courses:

Inorganic and Organic Chemistry

Physics

One year of a foreign language, preferably German

Advanced Composition

Additional chemistry and mathematics will be useful in graduate school

Many graduate schools for study in zoology and botany require satisfactory scores on the Graduate Record Examination (GRE) as part of their admission requirements. Students planning to work for advanced degrees should take this examination during their senior year at least three months prior to graduation.

COURSE OFFERINGS

- | | | |
|---------|---|---------|
| Bio 100 | LABORATORY EXPERIENCES
IN BIOLOGY
This course is designed to accompany Bio 101 General Biology. It is optional for students not planning to take further biology courses; mandatory for students planning to continue in biology. | (0-3) 1 |
| Bio 101 | GENERAL BIOLOGY
An introduction to the life sciences. The course is designed to introduce the student to some biological principles which are significant in everyday life and also to prepare him for the more specialized courses in biology. | (3-0) 3 |
| Bio 102 | GENERAL BOTANY
Study of the development of the plant kingdom.
<i>Prerequisite:</i> Bio 101. | (3-3) 4 |
| Bio 103 | GENERAL ZOOLOGY
Study of the development of the animal kingdom from the protozoans through the vertebrates.
<i>Prerequisite:</i> Bio 101. | (3-3) 4 |
| Bio 121 | HUMAN ANATOMY & PHYSIOLOGY
An introduction to the structure and function of the human body. This course is designed for those students wishing a better knowledge and understanding of their own bodies. | (2-3) 3 |
| Bio 201 | SYSTEMATIC BOTANY
A study of the classification and relationship of the major flowering plant groups; use of plant keys and related terminology. | (3-3) 4 |
| Bio 203 | FIELD ZOOLOGY
Collection, identification, and museum preparation of the vertebrate animals of the region. | (4-3) 5 |
| Bio 205 | ENTOMOLOGY
A study of the general anatomy and physiology of insects, their identification and control. | (2-3) 3 |
| Bio 221 | GENERAL PHYSIOLOGY
Studies of functions of animal and plant cells, tissues, organs and whole organisms emphasizing the basic processes common to all organisms.
<i>Prerequisites:</i> Bio 101 and concurrent enrollment in Chem 116 or 148. | (3-3) 4 |

- Bio 231 VERTEBRATE COMPARATIVE ANATOMY (2-6) 4
 A morphological study of the evolutionary development of vertebrate animals. Comparative dissections of representative animals will be done.
Prerequisite: Bio 103.
- Bio 232 VERTEBRATE EMBRYOLOGY (2-6) 4
 A detailed study of reproduction and development in representative vertebrates.
Prerequisite: Bio 103.
- Bio 301 PLANT MORPHOLOGY (3-3) 4
 Study of structure, reproduction, modifications and evolutionary development of vascular plants.
Prerequisite: Bio 102.
- Bio 303 HISTOLOGY (2-3) 3
 Study of the microscopic anatomy of the vertebrate body.
Prerequisite: Bio 103.
- Bio 343 PLANT PHYSIOLOGY (3-3) 4
 Study of growth and metabolism in plants: mineral nutrition, water relations, photosynthesis and other biosynthetic pathways, respiration, development, and responses to the environment.
Prerequisites: Chem 231; and concurrent enrollment in Chem 232; Bio 102; Bio 221.
- Bio 371 GENETICS (3-3) 4
 An investigation of inheritance with emphasis on the genetics of man, crops, and domestic animals. A discussion of the genetic basis of evolution is included.
Prerequisite: Bio 103 or permission of instructor.
- Bio 431 MICROBIOLOGY (3-3) 4
 Studies of bacteria and related groups with emphasis on their functions, culture, and identification, including diseases of economically important plants.
Prerequisites: Chem 231; and concurrent enrollment in Chem 232; Bio 221.
- Bio 455 CELL STRUCTURE & PHYSIOLOGY (3-3) 4
 Examination of the ultrastructure of the cell: metabolic mechanisms are studied at the molecular, organelle, and cellular levels.
Prerequisites: Chem 232; Biochemistry is strongly recommended; Bio 273, 331, or 373.

- Bio 471 ECOLOGY (4-3) 5
An introductory study of the relationships between animals, plants and their environment.
- Bio 473 MAMMALIAN PHYSIOLOGY (3-3) 4
Functions of the mammalian organ systems with emphasis on nutrition, metabolism and reproduction.
Prerequisite: Bio 221.
- Bio 475 BIOGEOGRAPHY (3-0) 4
A study of the past and present distributions of plants and animals. Emphasis will be on seed plants and vertebrate animals.
Prerequisite: consent of instructor.
- Bio 496 SEMINAR (2-0) 2
Students prepare and present library research papers. Modern trends and literature are emphasized.
Prerequisite: Senior standing and permission of instructor.
- Bio 499 INDEPENDENT STUDY 1-3
Individual research conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

CHEMISTRY

Assistant Professors Merle Harrison, George Guthrie, Rodney D. Hamilton; Instructor Arlan K. Ross.

The Chemistry Department offers a major in chemistry to prepare students for graduate school, professional schools, teaching in secondary schools, or careers in industry. In keeping with the liberal arts philosophy of the College, the student majoring in chemistry can take a number of elective courses in chemistry, in related fields, and in areas outside the physical sciences. Accordingly, the student can suit his degree to his own needs and interests. Most chemistry majors will elect to take chemistry courses beyond the required minimum, but the particular courses taken will depend upon the goals of the student.

The objective of the department is to offer a sound undergraduate degree wherein students gain a thorough knowledge of the fundamental fields of modern chemistry.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY

General Studies			41
<i>Specific Departmental Requirements:</i>			
Chem 147 and 148 (or Chem 115 and 116)		10	
Chem 231 and 232 Organic Chemistry		10	
Chem 358 Physical Chemistry		4	
One of the following three courses:		8	
Chem 359 Physical Chemistry			
Chem 364 Inorganic Chemistry			
Chem 365 Analytical Chemistry			
At least one course numbered above 400			
Chem 496 Seminar or Chem 499			
Independent Study		2	
Minimum total hours in Chemistry		34	34
<i>Auxiliary Requirements from Other Departments</i>			
Mathematics through Math 222		13	
Phys 217 and 218 (or Phys 117 and 118)		10	
Two trimesters of either German or French		6-8	
		29-31	29-31
<i>Electives</i>			22-24
TOTAL REQUIRED FOR GRADUATION			128

MINOR FOR SECONDARY TEACHERS

Chem 115-116 or 147-148

At least three courses numbered above 148,
preferably Chem 231, 358, and 364.

COURSE OFFERINGS

- Chem 115 GENERAL CHEMISTRY (4-3) 5
An introduction to chemistry, including atomic and molecular theory, the periodic table, bonding, stoichiometry, gases, solutions, and chemical equilibria. A student will not receive credit toward graduation for both this course and Chem 147.
- Chem 116 GENERAL CHEMISTRY (4-3) 5
A continuation of Chem 115. A student will not receive credit toward graduation for both this course and Chem 148.
Prerequisite: Chem 115.

- Chem 147 PRINCIPLES OF CHEMISTRY (4-3) 5
A quantitative, physical approach to chemistry including electronic structure of atoms and molecules, solutions and states of matter, chemical thermodynamics and equilibrium, reaction kinetics, and electrochemistry. The recommended beginning course for science majors. A student will not receive credit toward graduation for both this course and Chem 115.
Prerequisite: one year of high school chemistry and two years of high school mathematics. Concurrent enrollment in mathematics is recommended.
- Chem 148 PRINCIPLES OF CHEMISTRY (3-6) 5
A continuation of Chemistry 147. A student will not receive credit toward graduation for both this course and Chemistry 116. This course is recommended for chemistry majors.
Prerequisite: Chem 147, or Chem 115 and permission of instructor.
- Chem 231 ORGANIC CHEMISTRY (4-3) 5
The fundamental structure, reactions, and nomenclature of aliphatic and aromatic organic compounds. The laboratory is designed to acquaint the student with fundamental organic chemistry techniques.
Prerequisite: Chem 116 or Chem 148.
- Chem 232 ORGANIC CHEMISTRY (3-6) 5
The reactions of organic compounds containing halogen, hydroxyl, aldehyde, keto, carboxyl, amine and ether functional groups. The laboratory acquaints the students with more advanced techniques in organic chemistry such as syntheses and analyses.
Prerequisite: Chem 231.
- Chem 310 BIOCHEMISTRY (4-3) 5
The basic principles of biochemistry. The structure and function of proteins, carbohydrates, lipids, and nucleic acids; the metabolic processes occurring within living organisms; and biochemical genetics. The laboratory is designed to acquaint the student with basic biochemical techniques.
Prerequisite: Chem 231.
- Chem 320 MODERN PHYSICS (3-0) 3
See Physics 320.

- Chem 358 PHYSICAL CHEMISTRY (3-3) 4
 The quantitative aspects of laws governing chemical and physical phenomena. Includes thermodynamics, chemical potential, kinetics, phase rule discussions, and relationships of properties of substances to their molecular structures.
Prerequisites: Chem 116 or Chem 148, 1 year of college physics, and Math 222 concurrently.
- Chem 359 PHYSICAL CHEMISTRY (3-3) 4
 A continuation of Chem 358.
Prerequisite: Chem 358.
- Chem 364 INORGANIC CHEMISTRY (3-3) 4
 Modern concepts of inorganic chemistry, modern methods of synthesis and instrumentation involving major group elements, coordination chemistry and organometallic chemistry.
Prerequisite: Chem 358 recommended.
- Chem 365 ANALYTICAL CHEMISTRY (2-3) 3
 Modern analytical theory and methods, including electrical, optical and chromatographic techniques.
Prerequisite: Chem 358 recommended.
- Chem 370 HEAT AND THERMODYNAMICS (3-0) 3
 See Physics 370.
- Chem 420 QUANTUM MECHANICS (4-3) 5
 See Physics 420.
- Chem 454 ADVANCED TOPICS IN CHEMISTRY 1-4
 Advanced material in various areas of chemistry. During a trimester, material from one specific area will be treated. Class schedules will indicate the area. The time spent in the classroom and in the laboratory will vary with the topic.
Prerequisite: the 200 or 300 series course(s) in the specific subject area.
- Chem 464 ORGANIC QUALITATIVE ANALYSIS (0-9) 3
 Identification of a series of unknown organic compounds by instrumental means as well as by the preparation of derivatives. Designed to acquaint the student with the laboratory techniques involved in identifying organic compounds.
Prerequisite: Chem 232.
- Chem 496 SEMINAR (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.

- Chem 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

ENGINEERING

Assistant Professors James Baker and Otto Rohde; Instructor Thomas C. Ferrara.

The engineering program provides the equivalent of the first two years of a college engineering program. It also provides the engineering student with a liberal arts background and the strong mathematical foundation necessary for pursuing upper-level classes and graduate studies in engineering.

Fort Lewis College participates in a cooperative engineering program with Colorado State University at Fort Collins, Colorado. Two options are available to the student. One option is the 3-2 program in which a student attends Fort Lewis College for six trimesters (equivalent to three academic years); then he spends two years at Colorado State University in the College of Engineering. During his enrollment at Fort Lewis College, the student completes the requirements for the first two years of the engineering curriculum and most of the requirements for a major in mathematics. At Colorado State University, he 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 Colorado State University.

The second option provides for two years' attendance at Fort Lewis College during which the student completes the engineering requirements for the first two years at Colorado State University. Successful completion of courses with an average grade point of 2.0 is sufficient for the collective transfer of the courses as a block to Colorado State University and for advanced standing as a junior in that institution.

Although the above specifically pertains to the agreement with Colorado State University, the courses offered are accepted for credit toward comparable courses in other engineering institutions.

3-2 PROGRAM

Specific Departmental Requirements

Engr 104 Engineering Principles I	3	
Engr 105 Engineering Principles II	3	
Engr 201 Electric Networks I	3	
Engr 202 Electric Networks II	3	
+Engr 205 Elementary Surveying	(3)	
*Engr 206 Advanced Surveying	(3)	
Engr 217 Statics	3	
Engr 221 Dynamics	3	
Engr 276 Fluid Mechanics	3	21

Auxiliary requirements from other departments

FS 101, 102 Freshman Seminars	8	
Mathematics (Math 221, 222, 223, 327)	16	
(for Math degree, additional courses above Math 301)	11	
Chem 147, 148 Principles of Chemistry	10	
Phys 217, 218 Physics	10	
PE 101, 102 Physical Activity	2	
General Studies — College requirements from Groups A, C, and D.	21	
Math 496 Seminar or Math 499 Independent Study	2	
	80	80
		101

+Requirement for Agricultural Engineering, taken in lieu of an elective.

*Requirement for Civil Engineering, taken in lieu of electives.

BLOCK TRANSFER PLAN

Specific Departmental Requirements

Engr 104 Engineering Principles I	3	
Engr 105 Engineering Principles II	3	
Engr 201 Electric Networks I	3	
Engr 202 Electric Networks II	3	
+Engr 205 Elementary Surveying	(3)	
*Engr 206 Advanced Surveying	(3)	
Engr 217 Statics	3	
Engr 221 Dynamics	3	
Engr 276 Fluid Mechanics	3	21

Auxiliary requirements from other departments

FS 101, 102 Freshman Seminars	8	
Mathematics (Math 221, 222, 223, 327)	16	
Physics 217, 218 Physics	10	
Chem 147 Principles of Chemistry	5	
General Studies — From Group A, C, or D (Humanities and Social Sciences)	3	
PE 101, 102 Physical Activities	2	
	44	44
		65

+Requirements for Agricultural Engineering, taken in lieu of an elective.

*Requirement for Civil Engineering, taken in lieu of electives.

COURSE OFFERINGS

- Engr 104 ENGINEERING PRINCIPLES I (2-4) 3
Introduction to the engineering profession, engineering graphics and descriptive geometry.
Prerequisites: high school mechanical drawing or IA 150.
- Engr 105 ENGINEERING PRINCIPLES II (2-4) 3
Slide rule operations and use, graphical solution of engineering and science problems involving the use of graphical mathematics. Introduction to computer techniques and to Fortran IV.
Prerequisite: Math 121 at least concurrently.
- Engr 201 ELECTRIC NETWORKS I (2-3) 3
Element variable—voltage and current; Kirchoff's laws, network theory, systems of network equations, RC and RL network analysis.
Prerequisite: Math 222 must be taken at least concurrently.
- Engr 202 ELECTRIC NETWORKS II (2-3) 3
Transient analysis, phasors, resonance, R.M.S. and average values.
Prerequisite: Engr 201.
- Engr 203 ELECTRIC NETWORKS III (2-3) 3
Transient and steady state analysis using Laplace Transform methods, multiport analysis.
Prerequisite: Engr 202.

- Engr 205 ELEMENTARY SURVEYING (2-4) 3
 Introduction to use of surveying equipment and solution of fundamental surveying problems.
Prerequisite: Math 92 or high school trigonometry.
- Engr 206 ADVANCED SURVEYING (2-4) 3
 General surveying, astronomical observations, route surveying, and their field applications.
Prerequisite: Engr 205.
- Engr 217 STATICS (3-0) 3
 Composition and resolution of forces, equilibrium of force systems.
Prerequisite: Math 222 must at least be taken concurrently.
- Engr 221 DYNAMICS (3-0) 3
 The mechanics of bodies in motion and the resulting effects of force, motion, and acceleration.
Prerequisite: Engr 217.
- Engr 245 STRENGTH OF MATERIALS (3-0) 3
 Physical properties of materials; stresses and strains in members subjected to tension, compression, and shear; riveted and welded joints; flexural and shearing stresses in beams; deflection of beams; column analysis; principal stresses.
Prerequisite: Engr 217.
- Engr 276 FLUID MECHANICS (3-0) 3
 Statics, kinematics, and dynamics of fluids.
Prerequisite: Engr 221.

ENGLISH AND SPEECH

Professor Maynard Fox; Associate Professors David Berg, Ralph Dale O'Keefe, Kenneth I. Periman, Carroll V. Peterson, W. Wendell Phillips; Assistant Professors Alice K. Admire, G. Leonard Bird, Roland C. Jones, Richard F. Kornis; Instructors Myrtis T. Campbell, Judy L. Marold, Roger H. Malstead.

The work offered in English and Speech at Fort Lewis College deals with several aspects of liberal education: the literary, linguistic, and artistic history of Western culture; human values; and written and oral communication. In the major, four emphases are available: (1) the general culture major, (2) preparation for public school English teaching, (3) preparation for advanced work in theatre (in cooperation with the theatre program), and (4) preparation for graduate study in English. Students from other areas of study find many of the courses in English valuable for

their general educational development. In addition, specific supporting courses are offered for the Southwest Studies major, the Humanities major, and the Elementary Education major.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ENGLISH

General Studies 41

Specific Departmental Requirements

A minimum of 34 hours from English 161, 162, and any course numbered 221-499, distributed minimally among the following areas:

One course in World Literature (161, 162, 221, or 222)

One course in American Literature (241, 243, or 342)

One course in Composition (263 or 364)

Two courses in English Literature (any two from 331-335, 431, and 432)

One course in English Language (461, 462)

Engl 496 Seminar

or

Engl 499 Independent Study

Other courses bringing total to 34 hours 34

Auxiliary Requirements from other departments

Two courses in college mathematics

or

Two courses in college foreign language ... 6-8

Electives 45-47

(Those who wish to teach in the secondary schools must take the required education courses. Recommended electives for teachers:

Engl 151, 189, 208; and Thea 125, 126, 144, 344.)

TOTAL REQUIRED FOR GRADUATION 128

MINOR IN ENGLISH FOR SECONDARY TEACHERS:

At least 18 hours distributed among the same areas listed above for majors and restricted to the same courses as those listed for the minimal 34 hours in the English major.

COURSE OFFERINGS

PREPARATORY ENGLISH

Engl 019 INTENSIVE ENGLISH (5-0) 0
 An intensive course in English as a second language, designed for students without sufficient grasp of basic English structure and vocabulary to communicate ideas orally and/or in writing. Course work is tailored to individual student needs. Primarily for foreign students.

- Engl 101 A LINGUISTIC APPROACH TO THE ENGLISH LANGUAGE (5-0) 2
 For bilingual students, to be taken either concurrently with English 100 for Bilingual Students as a prerequisite to English 103 for Bilingual Students or as a supplement to English 103 for Bilingual Students on recommendation of the instructor. An introduction to modern linguistic principles in studying the English language, with emphasis on oral and written communication systems in relation to other Anglo-American cultural patterns.
- Engl 103 FRESHMAN ENGLISH (3-0) 3
 Training in good usage in written and oral expression. *Prerequisite:* satisfactory score on ACT and permission of instructor.
- Engl 104 FRESHMAN ENGLISH (3-0) 3
 A continuation of Engl 103 with emphasis on longer units of composition. *Prerequisite:* Engl 103.
- GENERAL ENGLISH ELECTIVES
 (not applicable to the major)
- Engl 100 DEVELOPMENTAL READING (0-3) 1
 A course designed to increase the reading rate and comprehension level of any student.
- Engl 121 FUNDAMENTALS OF SPEECH (3-0) 3
 Through closely supervised activities in various speech forms, the student develops skills in the organization and delivery of speeches.
- Engl 125 SEMANTICS (3-0) 3
 A study of the application to the communication process of the meaning of words in context. An introductory course intended for the general student.
- Engl 130 THE ENGLISH TRADITION IN LITERATURE (3-0) 3
 The English literary and cultural heritage presented in its historical context.
- Engl 140 THE AMERICAN TRADITION IN LITERATURE (3-0) 3
 The American literary and cultural heritage presented in its historical context.
- Engl 151 ORAL INTERPRETATION OF LITERATURE (3-0) 3
 Exploration of the layers of meaning in the basic forms of literature for the purpose of interpreting them orally to audiences. Also serves as a theatre course.

- Engl 189 NEWS WRITING (2-3) 3
A practical course in news writing, with emphasis on news gathering, interviewing, and the writing of news stories for the weekly student newspaper.
- Engl 208 ADVANCED JOURNALISM (2-3) 3
Advanced news writing, editorial and feature writing, preparation of copy for newspaper and campaigns, headline writing, and newspaper make-up.
- Engl 212 ADVANCED PUBLIC SPEAKING (3-0) 3
A study designed to handle larger units of persuasive speech materials than those handled in Fundamentals of Speech.
Prerequisite: Engl 121 and permission of instructor.
- Engl 327 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.

LITERATURE COURSES APPLICABLE TO THE MAJOR

- Engl 161 WORLD LITERATURE TO 1914 (3-0) 3
A study of selected masterpieces of world literature to 1914.
- Engl 162 WORLD LITERATURE SINCE 1914 (3-0) 3
A study of selected masterpieces of world literature, primarily the novel, since 1914.
- Engl 221 CLASSICAL LITERATURE (3-0) 3
A study of ancient Greek and Roman literature.
- Engl 222 BIBLE AS LITERATURE (3-0) 3
A study of the Bible as literature, and its influence on art, music, and literature of the western world.
- Engl 241 AMERICAN LITERATURE to 1835 (3-0) 3
A study of the literature of the colonies and the early republic.
- Engl 243 AMERICAN LITERATURE, 1865-1914 (3-0) 3
A study of American literature from the Civil War to World War I, with emphasis on the development of realism and naturalism.

- Engl 276 **FOLKLORE OF THE SOUTHWEST** (3-0) 3
A study of Anglo-American, Hispanic, and Amerind cultures, as reflected in their folklore, with attention paid to published and unpublished materials and collecting techniques, leading to a fuller understanding and appreciation of folk traditions and cultures of the Southwest.
- Engl 280 **LITERATURE OF THE SOUTHWEST** (3-0) 3
The American Southwest seen through fiction, poetry, biography, and other works by Anglos, Indians, and Spanish Americans.
- Engl 331 **ENGLISH LITERATURE THROUGH THE RENAISSANCE** (3-0) 3
A study of the literature of England from Malory to Milton.
- Engl 332 **ENGLISH LITERATURE, 1660-1798** (3-0) 3
A study of the ages of Dryden, Pope, and Johnson.
- Engl 333 **ENGLISH LITERATURE, 1798-1850** (3-0) 3
A study of the literature of England of the Romantic period. Emphasis on poetry and non-fictional prose.
- Engl 334 **ENGLISH LITERATURE, 1850-1914** (3-0) 3
A study of the literature of England of the Victorian and Edwardian periods. Emphasis on poetry and non-fictional prose.
- Engl 335 **THE ENGLISH NOVEL** (3-0) 3
A study of the development of the English novel from its beginnings to World War I.
- Engl 342 **LITERATURE OF THE AMERICAN RENAISSANCE** (3-0) 3
A study of such writers as Hawthorne, Emerson, Thoreau, Melville, Whitman, and Emily Dickinson.
- Engl 371 **DRAMATIC LITERATURE** (4-0) 4
A study and analysis of plays exclusive of Shakespeare.
- Engl 411 **CONTEMPORARY ENGLISH AND AMERICAN POETRY** (3-0) 3
A study of contemporary poetry from 1914 to the present.
- Engl 412 **CONTEMPORARY ENGLISH AND AMERICAN FICTION** (3-0) 3
A study of selected modern English and American writers, concentrating on the novel.

- Engl 431 CHAUCER (3-0) 3
A study of the writings of Geoffrey Chaucer.
- Engl 432 SHAKESPEARE (3-0) 3
A study of Shakespearean drama.

ENGLISH LANGUAGE AND COMPOSITION COURSES APPLICABLE TO THE MAJOR

- Engl 263 ADVANCED COMPOSITION (3-0) 3
An advanced writing course with emphasis on the common forms of writing used by educated adults.
Prerequisite: Freshman Seminar 102.
- Engl 364 CREATIVE WRITING (3-0) 3
An advanced writing course with concentration in such writing areas as poetry, short stories, and magazine articles.
Prerequisite: approval of instructor.
- Engl 461 HISTORY OF THE ENGLISH LANGUAGE (3-0) 3
A study of the development of English from Indo-European sources to the present.
- Engl 462 ENGLISH LINGUISTICS (3-0) 3
A study of English linguistic theory and grammar.

CAPSTONE COURSES APPLICABLE TO THE MAJOR

- Engl 496 SEMINAR (2-0) 2 or (3-0) 3
Students prepare and present library research papers.
Prerequisite: senior standing and permission of instructor.
- Engl 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

FOREIGN LANGUAGES

Associate Professor Maria Delaney; Assistant Professors Lucienne DeSimplaire, Manuel A. Rodriguez; Instructors James G. Fitzgerald, Marda-Ruth Roberts.

The Department of Foreign Languages offers work in French, German, Latin, and Spanish as an important element in any student's achievement of a well-rounded liberal education and as prep-

aration for life in the modern inter-related world. A Bachelor of Arts degree with a major in Spanish is offered. (See statement under SPANISH below.)

A minor for secondary teachers is offered in French, German, and Spanish. At present approximately 24 hours are required to teach foreign languages in the secondary schools. Students intending to take a minor for teaching purposes must take the necessary 24 hours plus the education courses required for certification. Students can acquire additional credit hours in French and German by independent studies in order to enable them to teach the languages in the secondary schools.

COURSE OFFERINGS

FRENCH

FL 147	ELEMENTARY FRENCH I A course in grammar, prose composition, reading and conversation.	(4-0) 4
FL 148	ELEMENTARY FRENCH II Further study of French with emphasis on reading, composition, and conversation.	(4-0) 4
FL 247	INTERMEDIATE FRENCH I A course in second-year French with emphasis on reading and conversation.	(3-0) 3
FL 248	INTERMEDIATE FRENCH II Continuation of FL 247.	(3-0) 3
FL 301	ADVANCED FRENCH COMPOSITION AND SYNTAX Composition and syntax through the study and analysis of French literary masterpieces. <i>Prerequisite:</i> FL 248.	(3-0) 3
FL 308	MASTERPIECES OF FRENCH LITERATURE Topics will vary ; may be repeated for a different topic.	(3-0) 3

GERMAN

FL 123	ELEMENTARY GERMAN I A course in grammar, pronunciation, and reading.	(4-0) 4
FL 124	ELEMENTARY GERMAN II A continuation of FL 123.	(4-0) 4

FL 223	INTERMEDIATE GERMAN I Second-year German with emphasis on reading, composition, and conversation.	(3-0) 3
FL 224	INTERMEDIATE GERMAN II Continuation of FL 223.	(3-0) 3
FL 323	THIRD YEAR GERMAN I Emphasis on literature, advanced reading, conversation, and composition.	(3-0) 3
FL 324	THIRD YEAR GERMAN II Emphasis on literature, advanced reading, conversation, and composition.	(3-0) 3
FL 325	MASTERPIECES OF GERMAN LITERATURE Topics will vary; may be repeated for a different topic.	(3-0) 3

LATIN

FL 109	INTRODUCTORY LATIN I An introduction to the Latin language.	(4-0) 4
FL 110	INTRODUCTORY LATIN II A continuation of FL 109. <i>Prerequisite:</i> FL 109.	(4-0) 4

SPANISH

Fort Lewis College offers a major in Spanish. It provides students with proficiency in spoken Spanish and an insight into Spanish-American culture and prepares students for professional employment and graduate work. Students desiring to teach will take the required education courses. Incoming students with some knowledge of Spanish are placed in appropriate courses.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN SPANISH

General Studies	41
<i>Specific Departmental Requirements</i>	
FL 311 and FL 312 Survey of Spanish Literature I & II or	
FL 321 and FL 322 Survey of Hispanic American Literature I & II	6
FL 496 Seminar or FL 499 Independent Study	2
	8 8

Other Departmental Requirements

12 hours from the remainder of the Spanish offerings numbered above 300	12	
<i>For those who need it:</i>		
FL 115 and FL 116 Elementary Spanish	8	
FL 215 and FL 216 Intermediate Spanish	6	
	26	26

Auxiliary Requirements from other departments

SW 365 Hispanic Civilization	3	
SW 375 Hispanic American Civilization	3	
	6	6

<i>Electives</i>	47	
TOTAL REQUIRED FOR GRADUATION	128	

COURSE OFFERINGS

FL 115	ELEMENTARY SPANISH I A course in grammar, prose composition, reading, and conversation.	(4-0) 4
FL 116	ELEMENTARY SPANISH II Further study of Spanish with emphasis on reading, composition, and conversation.	(4-0) 4
FL 215	INTERMEDIATE SPANISH I A course in second-year Spanish with emphasis on grammar review, reading, and conversation.	(3-0) 3
FL 216	INTERMEDIATE SPANISH II Continuation of the study of the first semester of second-year Spanish with emphasis on reading, conversation, and grammar review.	(3-0) 3
FL 311	SURVEY OF SPANISH LITERATURE I A survey of the literature of Spain from the 10th to the 18th centuries.	(3-0) 3
FL 312	SURVEY OF SPANISH LITERATURE II A survey of the literature of Hispanic America from 1824 to the present.	(3-0) 3
FL 320	SPANISH LINGUISTICS AND ADVANCED COMPOSITION Intensive study of the linguistic structure of Spanish and extensive application through written and spoken exercises. <i>Prerequisite:</i> FL 215 or equivalent.	(3-0) 3

- FL 321 SURVEY OF HISPANIC AMERICAN LITERATURE I (3-0) 3
 A course dealing with 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.
Prerequisite: FL 216 or equivalent.
- FL 322 SURVEY OF HISPANIC AMERICAN LITERATURE II (3-0) 3
 A course dealing with the Romanticists, 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.
Prerequisite: FL 216 or equivalent.
- FL 425 LITERATURE OF THE GOLDEN AGE IN SPAIN (3-0) 3
 Reading the masterworks of Spain's Golden Century, with emphasis on Miguel de Cervantes, writings of the Spanish mystics, and the picaresque novel.
- FL 426 TWENTIETH CENTURY SPANISH LITERATURE (3-0) 3
 A course on the novels, plays, essays, and poetry of the 20th Century Spanish authors. Emphasis on Unamuno, Baroja, Garcia Lorca, Gironella, literature of the Spanish Civil War, and contemporary authors publishing in Spain today.
- FL 427 HISPANIC AMERICAN NOVEL AND POETRY (3-0) 3
 A course dealing with the novels of the Pampa, the Llanos, the Jungle, the Sierra, and the City as well as the poetic masterworks of Spanish America. Also included are the contemporary psychological novel and the novels of social and political reform as well as the poems of the modernist movement and other contemporary poetic works.
Prerequisite: FL 216 or equivalent.
- FL 429 MEXICAN LITERATURE (3-0) 3
 A survey of Mexican literature with emphasis on the works of the Revolution of 1910 and contemporary Mexican authors.
- FL 495 TRANSLATION OF HISTORICAL DOCUMENTS (3-0) 3
 Translation of Spanish documents concerning the American Southwest.
Prerequisite: consent of instructor.

- FL 496 SEMINAR IN SPANISH (2-0) 2
Students prepare and present library research papers.
Prerequisite: senior standing and permission of instructor.
- FL 499 INDEPENDENT STUDY IN SPANISH, 1-3
FRENCH, OR GERMAN
Individual research conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

FORESTRY

Professor Herbert E. Owen; Assistant Professor Richard G. Keator.

This program is designed for those students planning to transfer to Colorado State University or other institutions offering degrees in forestry. It is not a terminal curriculum. The student should plan to enter the summer forestry camp session immediately at the end of his second year at Fort Lewis College if the school to which he is transferring has a summer camp program. The term "forestry" is used here for all related areas; e.g., game and fish management, range management, etc., as well as forest management.

COURSE OFFERINGS

- For 101 FORESTRY AND ALLIED PROFESSIONS (1-0) 0
Professional responsibilities, advantages, disadvantages, job characteristics, training, and education requirements for the profession.
- For 211 DENDROLOGY (3-3) 4
Classification, identification, silvical characteristics, economic importance and distribution of the broad-leaved and coniferous trees of the United States.
Prerequisite: Biology 102.
- For 259 RANGE AND FORAGE PLANTS (2-3) 3
Distribution, growth habits, ecological requirements, and importance of range plants in relationship to their use by big game and domestic animals.
Prerequisite: Biology 201.
- FRENCH see FOREIGN LANGUAGES
- GEOGRAPHY see SOCIOLOGY AND GEOGRAPHY
- GERMAN see FOREIGN LANGUAGES

GEOLOGY

Professor Frank O. Bowman, Jr.; Associate Professor Donald Lee Baars; Assistant Professor Jack A. Ellingson.

The Department offers a Bachelor of Science degree with a major in geology. Laboratory and field equipment and geology holdings in the College Library facilitate the necessary research and reading. The study of geology at Fort Lewis College is enhanced by the College's remarkable location amidst the unsurpassed geological phenomena in the southern Rocky Mountains and adjacent areas of the Southwest. The Grand Canyon, the Goose Necks of the San Juan River, Monument Valley, and Shiprock are representative of the classical geological localities nearby. The numerous outcrops and mine workings in the vicinity are sources of valuable geological specimens for the student. Also, the essentially continuous sequence of rocks in the Animas River valley represents literally hundreds of millions of years of erosion and deposition; such a sequence is invaluable in the study of the principles of sedimentation and stratigraphy.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY

General Studies		41	
<i>Specific Departmental Requirements</i>			
Geology 113 Physical Geology		4	
Geology 114 Historical Geology		4	
Geology 207 Mineralogy		3	
Geology 351 Igneous and Metamorphic Petrology I		3	
Geology 352 Igneous and Metamorphic Petrology II		3	
Geology 361 Stratigraphy and Sedimentary Petrology I		3	
Geology 362 Stratigraphy and Sedimentary Petrology II		3	
Geol 496 Seminar or Geol 499 Independent Study		2	
Other courses in Geology		9	
		34	34
<i>Auxiliary Requirements from Other Departments</i>			
Chemistry (two courses, preferably Chem 147-148)		10	
Mathematics through Math 92, preferably higher		5-9	
Physics (two courses, preferably Phys 217-218)		10	
		25-29	25-29
<i>Electives</i>		28-24	28-24
TOTAL REQUIRED FOR GRADUATION			128

PREPARATION FOR GRADUATE SCHOOL

Students majoring in geology who plan to earn advanced degrees will be required to complete the program as outlined above. In addition the following courses are recommended:

- Geology 208 Optical Mineralogy and Petrography
- Geology 233 Introductory Paleontology
- Geology 334 Structural Geology
- Geology 441 Field Geology
- One year of botany or zoology
- Additional work in chemistry—e.g., physical chemistry
- Engineering Principles 104-105
- Elementary Surveying 205
- Foreign language, preferably German
- Mathematics through calculus
- Additional work in physics

COURSE OFFERINGS

- | | | |
|----------|--|---------|
| Geol 113 | PHYSICAL GEOLOGY
The processes and agents at work on the Earth and the land forms they produce. | (3-2) 4 |
| Geol 114 | HISTORICAL GEOLOGY
The geologic history and development of life on the Earth as recorded by rocks and fossils.
<i>Prerequisite:</i> Geol 113. | (3-2) 4 |
| Geol 150 | GEOLOGY OF THE SOUTHWEST
A survey of the historical and structural geology and geomorphology of the Southern Rockies, Colorado Plateau, and Cordilleran provinces. Emphasis is on classic geologic areas and the significant geologic concepts that have been derived from them. Will not count toward Physical Science major. | (3-0) 3 |
| Geol 207 | MINERALOGY
The elements of crystallography, and the classification and identification of minerals.
<i>Prerequisites:</i> Geol 113 and completion of, or concurrent enrollment in, Chem 115 or 147. | (2-3) 3 |
| Geol 208 | OPTICAL MINERALOGY AND PETROGRAPHY
Procedures for identification of minerals in thin section, with emphasis on the optical determination of rock-forming minerals.
<i>Prerequisite:</i> Geol 207. | (2-6) 4 |

- Geol 213 **GEOMORPHOLOGY** (3-3) 4
 The relationship of geologic processes to the development of land forms.
Prerequisite: Geol. 113.
- Geol 233 **INTRODUCTORY PALEONTOLOGY** (3-3) 4
 The systematic study of fossils, primarily those used often in the identification and correlation of geologic formations.
Prerequisite: Geol 114.
- Geol 334 **STRUCTURAL GEOLOGY** (3-3) 4
 The analysis of geologic structures in the Earth's crust.
Prerequisite: Geol 113.
- Geol 351 **IGNEOUS AND METAMORPHIC** (2-3) 3
PETROLOGY I
 The origin, occurrence, classification, and economic geology of igneous and metamorphic rocks.
Prerequisites: Geol 113, 207; 208 is recommended.
- Geol 352 **IGNEOUS AND METAMORPHIC** (2-3) 3
PETROLOGY II
 The origin, occurrence, classification, and economic geology of igneous and metamorphic rocks.
Prerequisite: Geol 351.
- Geol 361 **STRATIGRAPHY AND SEDIMENTARY** (2-3) 3
PETROLOGY I
 The origin, classification, and significance of sedimentary rocks with regard to depositional environment and paleotectonic relationships. The dating, correlation, mapping, and economic significance of stratified rocks.
Prerequisites: Geol 114 and 207.
- Geol 362 **STRATIGRAPHY AND SEDIMENTARY** (2-3) 3
PETROLOGY II
 The origin, classification, and significance of sedimentary rocks with regard to depositional environment and paleotectonic relationships. The dating, correlation, mapping, and economic significance of stratified rocks.
Prerequisite: Geol 361.
- Geol 441 **FIELD GEOLOGY** 6
 The fundamental procedures and practices in geologic field mapping.
Prerequisite: Math 92, or equivalent, and 24 hours of Geology.

- Geol 496 SEMINAR (2-0) 2
 Students prepare and present research papers.
Prerequisite: approval of instructor.
- Geol 499 INDEPENDENT STUDY 1-3
 Individual research is conducted under the supervision
 of a faculty member.
Prerequisite: approval of Department Chairman.
- GERMAN see FOREIGN LANGUAGES

HISTORY

Professors Robert W. Delaney, Archie Jones; Associate Professors Gilbert C. Din (on leave 1971-72), Duane A. Smith, Ray M. Reeder; Assistant Professor Thomas R. Eckenrode; Instructor James Ash.

The study of history at Fort Lewis College, as elsewhere, serves many purposes. While a major in history very often prepares the student for graduate study or for a career in teaching, public service, or journalism, the study of history is an equally important part of a liberal education. In keeping with mankind's constant search for knowledge, historical knowledge is defined as an ordered set of carefully formed judgments that illuminate the issues of the present and help the student establish standards by which to appraise these issues.

History majors are required to take a minimum of 35 hours of history but not more than 42 hours. Should he be intending to teach, he should consult the School of Education section of this bulletin for specific requirements for certification.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN HISTORY

General Studies 41

History Requirements

AMERICAN HISTORY CONCENTRATION

A minimum of 21 hours of History courses
 numbered 300 or above 21-27

A minimum of two courses in European
 History, and a minimum of two courses in
 either Latin American, Asian, or African
 History 12-18

Hist 496 Seminar

or

Hist 499 Independent Study 2

35-42 35-42

EUROPEAN HISTORY CONCENTRATION

A minimum of 21 hours of History courses numbered 300 or above	21-27
A minimum of two courses in American and two in either Latin American, Asian, or African History	12-18
Hist 496 Seminar	
or	
Hist 499 Independent Study	2
	35-42 35-42

Requirements from other departments

Two courses in college mathematics	
or	
Two courses in foreign language	6-9 6-9

Electives 36-46

TOTAL REQUIRED FOR GRADUATION 128

A student wishing to concentrate in an area of history other than American or European may construct his own curriculum in consultation with his adviser and with the approval of the Department Chairman, the School Director, and the College Curriculum Committee.

COURSE OFFERINGS

- Hist 120, SOCIAL AND POLITICAL HISTORY OF (3-0) 3
121 INDIANS OF THE SOUTHWEST
A two-semester course on the history and culture of modern Indians of the Southwestern portion of the U.S. The first semester will deal with the Navajos, Apaches, Utes, and Pueblos. The second semester will deal with other tribes of the Southwest. Balanced attention will be given to social, political, and economic aspects of each group. Approved for Southwest Studies major.
- Hist 160 SURVEY OF WESTERN CIVILIZATION (3-0) 3
I AND II
A history of western civilization from man's earliest experience to the present through a study of great movements or periods in history. Balanced attention given to the social, political, economic and cultural developments of the past that help to explain current civilization and problems.

- Hist 170 SURVEY OF EASTERN CIVILIZATION (3-0) 3
I AND II
A history of eastern civilization focusing on developments in the Far East in the spheres of politics, economics, society, culture, and technological achievements. Southeast Asia, Inner Asia, Central Asia, Middle East, and India in early times, and the encounter with the West in modern times will be examined.
- Hist 270 SURVEY OF LATIN AMERICAN (3-0) 3
HISTORY I AND II
A two-trimester general history survey of Latin America. Either part may be taken first.
- Hist 280 SURVEY OF AMERICAN (3-0) 3
HISTORY I AND II
A two-trimester general introductory survey of United States history. Either part may be taken first.
- Hist 340 STUDIES IN NEAR EASTERN AND (3-0) 3
AFRICAN HISTORY
A study of the history of the Near East and Africa. The specific topic will vary. May be taken only with instructor's permission. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- Hist 350 STUDIES IN ASIATIC HISTORY (3-0) 3
A study of the history of Asia. The specific topic will vary. May be taken only with instructor's permission. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- Hist 370 STUDIES IN LATIN AMERICAN HISTORY (3-0) 3
A study of the history of Latin America. The specific topic will vary. May be taken only with instructor's permission. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- Hist 460 STUDIES IN EUROPEAN HISTORY (3-0) 3
A study of the history of Europe. The specific topic will vary. May be taken only with the instructor's permission. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- Hist 480 STUDIES IN AMERICAN HISTORY (3-0) 3
A study of the history of the United States and Canada. The specific topic will vary. May be taken only with instructor's permission. Students may take this course one or more times for credit, provided the subject is different on each occasion.

- Hist 496 SEMINAR (2-0) 2
Students prepare and present library research papers.
Prerequisite: senior standing and permission of instructor.
- Hist 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

HUMANITIES MAJOR

Fort Lewis College offers an interdisciplinary major in Humanities. This major consists of an option of 20 or 32 hours and at least 12 hours in either one or two of the other cognate areas included within the offerings of the disciplines listed below to give a total of 44 hours. Such a program in the Humanities affords a sound education for those contemplating careers in law or government service, for those planning to teach, for those preparing to go on to graduate school, and for those who wish a sound cultural grounding for the bachelor's degree. The student is required to cross traditional subject-matter areas to satisfy the requirements of the Humanities major; he will elect an option in History, Music, Art, Literature, Anthropology, Political Science, or Foreign Language and also take at least 12 hours of coherent course work in either one or two other areas, depending upon his individual interests and needs.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN HUMANITIES

General Studies		41	
Primary concentration	20-32		
One or two secondary concentrations of 12 hours each	12-24		
Two trimesters of college mathematics or two trimesters of college foreign language	6-9		
Seminar or Independent Study in major concentration.	2		
	40-67	40-67	
<i>Electives</i>			20-47
TOTAL REQUIRED FOR GRADUATION			128

Students expecting to teach are advised to take 32 hours in their primary concentration and acquire the hours in Education necessary for certification.

- IA 202 **ADVANCED METAL WORKING** (2-3) 3
Continuation of IA 201. The welding and identification of different metals. Wrought iron work and design of metal projects. Use of the gas torch.
- IA 220 **CRAFTS I** (2-3) 3
Includes artmetal and leathercraft. Emphasis on individual design in the ornamentation of aluminum, copper, brass, the etching of aluminum, modeling and carving of leather.
- IA 221 **CRAFTS II** (2-3) 3
A course in lapidary and silversmithing. Stresses individual design of jewelry and the cutting and polishing of gem quality rocks.

MATHEMATICS

Visiting Professor Ottis H. Rechard; Associate Professor Donald D. Bushnell; Assistant Professors Richard D. Anderson, Larry S. Johnson, Robert L. Motsch, Harry C. Rosenberg, Harold E. Stocker; Instructor Clifford B. Capp.

The Mathematics Department has two primary functions. It provides majors in mathematics with preparation for graduate school, teaching careers, or employment in industry, and it is a service department offering courses for students majoring in other fields.

The mathematics major begins his studies with Math 121 Elementary Functions if his high school background contains at least three years of mathematics including two years of algebra and one of geometry. A more advanced student may begin with the calculus if his background is deemed sufficient. Students without sufficient background for Math 121 should begin with Math 91 Fundamentals of Mathematics or Math 92 Trigonometry. However, credit for these courses does not count towards the 34 hour mathematics major nor towards the 128 hour graduation requirement. In fact, no course numbered lower than 121 shall count towards the mathematics major and neither shall those courses numbered 201, 215, 216, 315, and 316.

The mathematics major must complete 15 hours of credit in mathematics courses numbered higher than 300 (with the exceptions noted above). Those majors who intend to enroll in a graduate program should take Math 375 Algebraic Structures, Math 376 Linear Algebra, Math 422 Advanced Calculus, and at least one year of German or French. They should also consult the department chairman in mathematics at schools of intended enrollment to learn of any special requirements of that school.

The teaching major should take Math 375 Algebraic Structures, Math 376 Linear Algebra, and Math 342 College Geometry.

For the elementary education major, the Mathematics Department offers the sequence of courses Math 215 Sets, Natural Numbers, and Integers; Math 216 Rational Numbers; Math 315 Real Numbers and Geometry; and Math 316 Topics in Number Theory and Geometry.

For other non-majors, the Mathematics Department offers Math 100 Mathematics for Liberal Arts and Math 201 Elementary Statistics. The Math 100 course is offered for non-science majors and the Math 201 is offered for students who want an introduction to statistics without a calculus background. Also, Math 91 Fundamentals of Mathematics and Math 92 Trigonometry may be taken by any student with a very weak high school background or by one who needs some special knowledge of elementary algebra or trigonometry.

In addition to the mathematics courses, the Mathematics Department also teaches the computer science course, Comp Sci 150 Introduction to Programming Systems.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS

General Studies		41	
<i>Specific Departmental Requirements</i>			
Mathematics courses through			
Math 223 Calculus		12-17	
Math 375 and Math 376 or			
Math 422 and Math 423		6	
<i>Other Departmental Requirements</i>			
Additional hours from courses numbered above			
Math 300		9-14	
Math 496 Seminar or Math 499 Independent			
Study		2	
		34	34
<i>Electives</i>			53
TOTAL REQUIRED FOR GRADUATION			128

COURSE OFFERINGS

- *Math 91 **FUNDAMENTALS OF MATHEMATICS** (2-3) 3
 Fundamentals of arithmetic and algebra including sets, set operations, simple linear equations, quadratic equations, product and factoring of polynomials and simultaneous systems. This course is designed primarily for those students who do not have a sufficient background in algebra to take Math 121. Credit will not be counted toward the 128-hour graduation requirements and grades will be satisfactory or no credit.
- *Math 92 **TRIGONOMETRY** (2-0) 2
 A study of plane trigonometry including trigonometric functions, fundamental identities, and applications to triangles. This course is designed for students who need more background in trigonometry before taking Math 121. Credit will not be counted toward the 128-hour graduation requirement and grades will be satisfactory or no credit.
- *Math 100 **MATHEMATICS FOR LIBERAL ARTS** (4-0) 4
 A course in mathematics especially for the non-mathematics and non-science major. Includes topics from logic, algebraic structures, number theory, set theory, probability theory, and history of mathematics.
- Math 121 **ELEMENTARY FUNCTIONS** (5-0) 5
 A study of elementary functions, their graphs and applications, including algebraic functions and transcendental functions; and introduction to two and three dimensional analytic geometry and vectors.
Prerequisite: two years of high school algebra and one year of high school geometry and satisfactory ACT or SAT score.
- *Math 160 **LINEAR MATHEMATICS** (3-0) 3
 Designed as a first course in linear mathematics for business, behavioral, and social science students, this course includes such topics as set theory, logic, matrix algebra, linear systems, linear programming, game theory, and model building.
- *Math 201 **ELEMENTARY STATISTICS** (3-0) 3
 The types and treatments of data, sampling theory, and inferences.
- *Math 215 **SETS, NATURAL NUMBERS, AND INTEGERS** (3-0) 3
 This course includes a presentation of sets, set operations, elementary logic, base and base free systems, construction of a number system, ordered pairs, and integers. This course is intended primarily for elementary teachers.

- *Math 216 RATIONAL NUMBERS (3-0) 3**
 This course includes a presentation of further topics of integers, equivalence relations, construction of the rational numbers, properties and operations with rational numbers, decimal systems, sequences, and shortcomings of the rational numbers.
Prerequisite: Math 215.
- Math 221 CALCULUS (4-0) 4**
 Differential and integral calculus of the elementary functions with associated geometry.
Prerequisite: Math 121 or permission of instructor.
- Math 222 CALCULUS (4-0) 4**
 Techniques of single-variable and multi-variable calculus and an introduction to differential equations.
Prerequisite: Math 221.
- Math 223 CALCULUS (4-0) 4**
 Limits and continuity of functions, sequences and series, implicit differentiation, integration by substitution and other special techniques, improper integrals, maxima and minima, and differential equations.
Prerequisite: Math 222.
- Math 301 FOUNDATIONS FOR ADVANCED MATHEMATICS (3-0) 3**
 A study of axiomatic systems including axiomatic development of logic, set theory, and a number system; and a study of applications of logic and sets to mathematical structures.
Prerequisite: Math 222.
- *Math 315 REAL NUMBERS AND GEOMETRY (3-0) 3**
 This course will consider the following topics: lines and points, space, incommensurables, limits, real numbers, cartesian product, and geometry in the cartesian plane.
Prerequisite: Math 216.
- *Math 316 TOPICS IN NUMBER THEORY AND GEOMETRY (3-0) 3**
 Some of the topics to be presented in this course are modular arithmetic, finite fields, basic prime number theorems, regular polygons and polyhedral figures, areas, constructions, and combinatorics.
Prerequisite: Math 315.

- Math 320 NUMERICAL ANALYSIS (3-0) 3
 Numerical methods in calculus, differential equations, linear algebra, matrix inversion, and estimation of characteristic roots; oriented toward machine computation.
Prerequisite: Math 223.
- Math 327 DIFFERENTIAL EQUATIONS (4-0) 4
 The types and solutions of differential equations.
Prerequisite: Math 223.
- Math 342 MODERN COLLEGE GEOMETRY (3-0) 3
 The advanced theories and topics in geometry.
Prerequisite: Math 301.
- Math 375 ALGEBRAIC STRUCTURES (3-0) 3
 Groups, rings, fields, quotient structures, isomorphism theorems.
Prerequisite: Math 301 or permission of instructor.
- Math 376 LINEAR ALGEBRA (3-0) 3
 Vector spaces, linear transformations, linear algebras, matrices, determinants, similarity, canonical forms, quadratic forms.
Prerequisite: Math 301.
- Math 401 PROBABILITY AND STATISTICS (3-0) 3
 Mean and variance of sum of random variables; binomial, Poisson, and normal distribution; Markov chains; stochastic processes; and application to theory of queues.
Prerequisite: Math 223.
- Math 422 ADVANCED CALCULUS (3-0) 3
 Structure of the real number system, elementary topology of the real numbers and of the Euclidean spaces, general theory of limits and continuity, differentiation of functions in Euclidean spaces.
Prerequisite: Math 301.
- Math 423 ADVANCED CALCULUS (3-0) 3
 A continuation of Mathematics 422. Topics include the Stieltjes integral on the line and in Euclidean spaces, infinite series, and an introduction to function spaces.
Prerequisite: Math 422.
- Math 461 ELEMENTARY TOPOLOGY (3-0) 3
 Topology of metric spaces with emphasis on the structure of the real numbers; topological spaces; separation axioms; continuous functions; homeomorphisms and topological invariants; product spaces and quotient spaces.
Prerequisite: Math 301.

Math 496	SEMINAR	(2-0) 2
	Students prepare and present library research papers. <i>Prerequisite:</i> senior standing and permission of instructor.	
Math 499	INDEPENDENT STUDY	1-3
	Individual research conducted under the supervision of a faculty member. <i>Prerequisite:</i> approval of Department Chairman.	
Comp Sci 150	INTRODUCTION TO PROGRAMMING SYSTEMS	(2-2) 3
	A study of programming systems at the translating-language level. After an overview of the structure of modern computer systems, the student is introduced in detail to a major translating-language. Applications in areas of student interest are studied, and contrasting philosophies of language implementation are examined. Individual and team programming capabilities are developed in the laboratory.	

*These courses do not count towards the mathematics major.

MUSIC

Assistant Professors Ralph A. Downey, Sherman Friedland, Patricia E. Weaver; Instructor Michael Bouman.

The Fort Lewis College Music Department offers a major in music for those planning to enter graduate study, for those planning teaching careers in elementary or secondary education, and for those who may wish to study music avocationally. Non-music majors will find many courses in the curriculum which may be of personal interest to them.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC — INSTRUMENTAL EMPHASIS

General Studies 41

Specific Departmental Requirements

Mu 122 Sight Singing and Ear Training	3
Mu 221 Theory I	3
Mu 222 Theory II	3
Mu 231 Music History I	3
Mu 232 Music History II	3
Mu 250 Conducting	2
Mu 315 Methods and Principles of Teaching Instrumental Music	3
Mu 321 Advanced Theory	3
Mu 322 Advanced Theory	3
Mu 423 Instrumental and Choral Arranging	3
Music 496 Seminar or Music 499 Independent Study	2

31 31

Other Departmental Requirements

Mu 110 Band (at least six trimesters of participation in band for which a maximum of 3 hours is given.)	3	
Mu 200 Applied Music (8 to 16 hours)	8-16	11-19 11-19
<i>Electives</i>		37-45
TOTAL REQUIRED FOR GRADUATION		128

BACHELOR OF ARTS DEGREE WITH A MAJOR IN MUSIC — VOCAL EMPHASIS

For those students who wish to major in vocal music, the above courses are required except that Mu 314 must be substituted for Mu 315, and the 8 to 16 hours of applied music must be directed toward vocal. Two semesters of piano and the proficiency test are required. Chorus participation in 6 to 8 trimesters is required.

PIANO PROFICIENCY

All music majors must pass a piano proficiency examination based on the fundamental knowledge of the instrument which a non-piano major should have. This examination, held before the department faculty, consists of: sight-reading, harmonization at sight of a simple melody, ability to play all major and harmonic minor scales one octave, the presentation of a memorized composition of at least two pages in length from the traditional piano repertoire, and knowledge adequate to answer basic questions about the instrument.

MUSIC FOR TEACHERS

Those who wish to teach music in the secondary schools should elect the necessary education courses. Those who wish to major in elementary education music should take the above required courses, except that Mu 314 should be substituted for Mu 315.

MUSIC MINOR FOR SECONDARY TEACHERS

The student who wishes to minor in music is required to take Mu 100, Mu 122, Mu 316, or Mu 314 or Mu 315, choice of one; Mu 231 or Mu 232, Mu 250, and a minimum of 7 trimester hours in applied music. An additional requirement is a reasonable proficiency test in piano.

COURSE OFFERINGS

- Mu 100 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.
- Mu 102 INTRODUCTION TO MUSIC (3-0) 3
A music appreciation course designed for students seeking to fulfill General Studies requirements. Deals with major musical trends from medieval times to the present.
- Mu 103 INSTRUMENTAL AND VOCAL CLASS (0-2) 1
INSTRUCTION (A, B, C, D, E, & F)
These classes are all designed to provide the student with the basic elements and techniques of performance in each of the media.
- Mu 104 APPLIED MUSIC (A, B, C, D, E & F) (0-1/2) 1
204 A one-half hour private lesson per week. Open to all
304 students. Number of the course varies with the level
404 of the student proficiency.
- Mu 105 CONCERT CHOIR (0-2) 1/2
Thorough study and performance each trimester of some major work for choir. Open to all students.
- Mu 106 CHAMBER SINGERS (0-3) 1/2
An ensemble specializing in the performance of small scale works such as madrigals. By audition only.
- Mu 110 BAND (0-3) 1/2
Designed to provide every student who plays a musical instrument the opportunity to pursue his musical interests. A variety of musical literature will be provided as well as the opportunity to perform in concert on campus and on tour.
- Mu 122 SIGHT-SINGING AND EAR-TRAINING (3-0) 3
A study of, and practice in, rhythmic, melodic, and harmonic ear-training and sight-singing.
Prerequisite: Mu 100.
- Mu 221 THEORY I (3-0) 3
The study of harmony in the 18th and 19th centuries using four-part writing as a basis. Diatonic modulations and seventh chords, melodic and rhythmic dictation, keyboard harmony studies, analysis of chorales and selected excerpts from traditional literature.

- Mu 222 THEORY II (3-0) 3
Continuation of Mu 221.
Prerequisite: Mu 221.
- Mu 231 MUSIC HISTORY I (3-0) 3
Study of the history of music from Classical antiquity to 1750.
- Mu 232 MUSIC HISTORY II (3-0) 3
Study of the history of music from 1750 to the present.
- Mu 250 CONDUCTING (2-0) 2
A course in the techniques of instrumental and choral conducting.
- Mu 301 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. May be repeated once.
Prerequisite: consent of instructor.
- Mu 302 BRASS ENSEMBLE (0-2) 1
A survey through performance of the literature written for this medium. Literature from the Baroque period to and including contemporary periods will be studied and performed. May be repeated once.
Prerequisite: consent of instructor.
- 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 in teaching vocal music in the public schools in grades K-12. The Kodaly and Orff methods coupled with a pragmatic approach will be used.
- 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.
- Mu 316 MUSIC IN THE ELEMENTARY SCHOOL (3-0) 3
A class for elementary classroom teachers. A study of basic music and basic music teaching.

- Mu 321 **ADVANCED THEORY** (3-0) 3
 Continuation of Mu 222. Ninth chords, chromatic harmony, elements of dissonance found in late 19th century music. Two and three-part melodic dictation; analysis of selections from 18th and 19th century literature.
Prerequisite: Mu 222.
- Mu 322 **ADVANCED THEORY** (3-0) 3
 Continuation of Mu 321.
Prerequisite: Mu 321.
- Mu 423 **INSTRUMENTAL AND CHORAL ARRANGING** (3-0) 3
 A course designed to equip music majors with the skills and techniques of arranging for instrumental and choral ensembles.
Prerequisites: Mu 221, 222, 321, 322.
- Mu 496 **SEMINAR** (2-0) 2
 Students prepare and present library research papers.
Prerequisite: senior standing and permission of instructor.
- Mu 499 **INDEPENDENT STUDY** 1-3
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

PHILOSOPHY

Professor Paul W. Pixler; Assistant Professor Stephen Benson.

Philosophers have had many different objectives and styles. The objectives emphasized in courses in this school are (1) the unification of all human knowledge under a normative theory of being and an understanding of the problems inherent in that attempt, (2) a discovery of the limitedness of various specialized sciences through an understanding of the nature of their basic assumptions, and (3) the realization that the ordinary use of language covers up much human ignorance.

COURSE OFFERINGS

- Phil 141 **PROBLEMS OF PHILOSOPHY** (3-0) 3
 A broad selection of philosophical problems is presented with representative readings from the history of philosophy in an atmosphere of class discussion. Problems included are: Free will vs. determinism, the validity of induction, the nature and relationship of mind and body, the possibility of proving that God exists, and the nature of knowledge and its relation to sense experience.

- Phil 251 **ETHICS** (3-0) 3
 This course reviews broadly the history of man's systematic attempts from Plato to modern psychotherapeutic theory to identify morality and to establish standards for making and assessing moral judgments.
- Phil 261 **PHILOSOPHY OF RELIGION** (3-0) 3
 A detailed survey of philosophical approaches to problems raised by religion. Readings will be culled from sources representing widely differing points of view.
- Phil 271 **LOGIC** (3-0) 3
 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 a brief history of inductive logic.
- Phil 274 **HISTORY OF ANCIENT AND
 MEDIEVAL PHILOSOPHY** (3-0) 3
 The origins of scientific thought among the ancient Milesian philosophers, the development of anthropological interest through the sophists and Socrates form the first part of this course. The great systems of Plato and Aristotle, and the religious approaches of Stoics, Epicureans, Sceptics, leading to St. Augustine and the Medieval Scholastics will give an understanding of the roots from which modern science has grown.
- Phil 275 **RENAISSANCE, MODERN, AND RECENT
 PHILOSOPHY** (3-0) 3
 History of Renaissance. Bacon, Descartes, Leibniz, Hume, and Kant lay the groundwork for the modern scientific point of view. Marx, Mill, Dewey, Heidegger, Kierkegaard, Sarte, Buber, Whitehead, and Russell state the issues in modern terms. This course aims to bring the students up against the main intellectual conflicts of the present day.

PHYSICAL SCIENCE MAJOR

Instructors are drawn from various Physical Science departments.

The Physical Science major provides good training in the physical sciences within the broader context of a liberal arts curriculum. The program offers a concentration of courses in which the student takes at least 20 credit hours in one of the three physical sciences (Chemistry, Geology, Physics), 3 courses in a second physical science, and 2 courses in the third science.

The program is designed for students who intend to teach more than one science at the secondary level or seek an advanced degree in physical science, earth science, or possibly one of the particular fields of science; others may wish to use the program as a means of preparing to teach on the secondary school level or to work as a science technician or to continue training leading toward a career in medicine, dentistry, etc. Any student planning to teach should consult the School of Education section of this bulletin to obtain the certification requirements.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN PHYSICAL SCIENCE

General Studies .. 41

General requirements

Chemistry (2 courses, preferably Chem 147-148)	10	
Geology 113-114	8	
Mathematics through Math 222	13	
Physics (2 courses, preferably Phys 217-218)	10	
	41	41

Additional requirements depending on concentration selected

(Choose the courses in *one* of the sciences listed below; with the courses listed above as general requirements these courses will complete the required 20 hours concentration.)

Chemistry 231, 258 and one other course numbered above 231 <i>or</i>	12-14
Geology 207, 351, 361 and one other course numbered above 207	12-13
Physics—3 courses numbered above 218	10-14

Choose one additional course in either science not selected as the major concentration above. This will serve as the necessary third course in a second physical science.

3-5
37-46 37-46

Electives 9-0

TOTAL REQUIRED FOR GRADUATION128

COURSE OFFERINGS

- PhySc 100 LABORATORY (0-3) 1
Work covers experiments in the fields of physics, chemistry, meteorology, geology, and astronomy. Laboratory techniques and instrumentation are stressed.
- PhySc 105 THE PHYSICAL SCIENCES (3-0) 3
History and philosophy of science. Study will be made of the development of some of the most important concepts of science: modern developments, problems in science, and problems from science. Area studies in electron theory, transistors, particle chemistry.

PHYSICS

Professor Randall D. Taylor; Assistant Professor Daniel E. Gibbons.

As an important part of the physical science program, Fort Lewis College offers a strong selection of the basic undergraduate courses in Physics. These courses are used extensively by students as part of their General Studies program and to augment their work in Chemistry, Engineering, Mathematics, etc. For information about the ways in which the Physics courses can help him, the individual student should consult his adviser and members of the Physics faculty.

COURSE OFFERINGS

- Phys 117 PHYSICS (4-3) 5
A study of mechanics, wave motion, sound, and heat. Calculus is not used. The course is intended to satisfy the college physics requirements and/or curiosity of all students whose major interests are not in engineering, physical science, or mathematics. This course is not recommended for engineering students or for most physical science majors. Students who take Phys 217 will not receive credit toward graduation for Phys 117.
Prerequisite: high school algebra.
- Phys 118 PHYSICS (4-3) 5
A continuation of Phys 117. The course includes topics in electricity and magnetism, light and optics, and in modern physics. Calculus is not used. Students who take Physics 218 will not receive credit toward graduation for Phys 118.
Prerequisite: Phys 117.

- Phys 217** **PHYSICS FOR SCIENCE AND ENGINEERING** (4-3) 5
 The course includes topics in mechanics, wave motion, sound and heat. Differential and integral calculus are used throughout the course. Phys 217 is required of engineering students and strongly recommended to all physical science majors.
Prerequisite: Math 221; Math 222 should be taken concurrently.
- Phys 218** **PHYSICS FOR SCIENCE AND ENGINEERING** (4-3) 5
 A continuation of Phys 217. The course includes the principles of electricity and magnetism, light and optics, and topics in modern physics. Phys 218 is required of engineering students and strongly recommended to all physical science majors.
Prerequisites: Math 222 and Phys 217.
- Phys 320** **MODERN PHYSICS** (3-0) 3
 A course in modern physics. A study of current theories in atomic and nuclear physics.
Prerequisites: Phys 117 or 217 and Math 222.
- Phys 340** **OPTICS** (3-3) 4
 Laboratory experiments include experiments in both geometrical and physical optics. Emphasis is on precision measurements by optical techniques. Experiments include measurements with interferometer, laser, spectroscope, and diffraction grating.
Prerequisite: Phys 118 or 218; Math 222.
- Phys 354** **THEORETICAL MECHANICS** (4-0) 4
 A study of kinematics, statics, and dynamics of particles and rigid bodies.
Prerequisites: Phys 117 or 217; Math 223.
- Phys 361** **PRINCIPLES OF ELECTRICITY AND MAGNETISM** (4-3) 5
 The mathematical theory of electrical and magnetic phenomena.
Prerequisites: Phys 118 or 218; Math 327.
- Phys 370** **HEAT AND THERMODYNAMICS** (3-0) 3
 The concepts of temperature, heat, and changes of state.
Prerequisites: Phys 117 or 217; Math 327.
- Phys 408** **ELECTRIC CIRCUITS** (4-3) 5
 The principles and theories of circuit analysis, energy conversions, and pertinent equipment.
Prerequisites: Phys 117 or 217; Math 327.

- Phys 420 **QUANTUM MECHANICS** (4-3) 5
 An introduction to modern concepts in quantum mechanics. The course includes wave-particle relationships, stationary solutions to Schrodinger equation, barrier penetration problems, single harmonic oscillator, one-electron atom, multi-electron atoms, and an introduction to quantum scattering theory.
Prerequisites: Phys 118 or 218; Math 223.
- Phys 499 **INDEPENDENT STUDY** 1-3
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of instructor.

POLITICAL SCIENCE

Associate Professor LeRoy W. Goodwin; Assistant Professors David J. Bass, James C. Decker.

The Political Science major provides excellent training for the person who: (1) plans to work in city, county, state, or national government; (2) expects to become an attorney; (3) hopes to go into the Foreign Service, the Peace Corps, or to work abroad for an American company; (4) plans to enter graduate school and later teach in a college or university as well as for the person who desires to teach at the secondary school level; (5) expects to enter politics, either as a candidate or as an administrative aide to a public official; (6) expects to report political news; and (7) expects to be an administrator in higher education.

Political Science course offerings are available, in addition, to the student who is majoring in another area but who wants to learn something about politics and government.

BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

General Studies	41
<i>Specific Departmental Requirements</i>		
PS 110 U.S. National Government: Power and Freedom in the Twentieth Century	3	
PS 388 Contemporary Political Analysis	3	
PS 496 Seminar, or PS 499 Independent Study	2	
	8	

Other Departmental Requirements

24 additional hours in Political Science 24 32

Auxiliary requirements from other departments

Hist 280 I and II Survey of American History 6

Two courses in any of the following areas:

Anthropology, Economics, Foreign Language,
Mathematics, Philosophy, Psychology, or
Sociology. 6-10 12-16

Electives 39-43

TOTAL REQUIRED FOR GRADUATION128

Those who wish to teach in the secondary school must complete the required education courses.

MINOR FOR SECONDARY TEACHERS

21 hours of Political Science course work.

COURSE OFFERINGS

PS 110 U.S. NATIONAL GOVERNMENT: POWER (3-0) 3
AND FREEDOM IN THE TWENTIETH
CENTURY

A study of the policies, procedures, politics, and problems of the U.S. national government.

PS 120 STATE AND LOCAL GOVERNMENT (3-0) 3

A study of the history, nature, organization, and operation of state and local governments in the United States.

PS 220 U.S. PARTY AND INTEREST GROUP (3-0) 3
POLITICS

An inquiry into the dynamics of the American representative system, stressing the roles of the two major parties in the nomination and election process and in the control and management of governmental power. Relationships among the government, parties, and interest groups are stressed.

PS 230 PUBLIC ADMINISTRATION (3-0) 3

An examination of the role of administration in government, with special attention given to the relationship of the bureaucracy to the policy-formulation branches of the government.

PS 282 COMPARATIVE GOVERNMENTS: (3-0) 3
MAJOR FOREIGN POWERS

A comparative study of foreign national governments.

- PS 283 **COMPARATIVE GOVERNMENTS: (3-0) 3**
DEVELOPING NATIONS
 A comparative study of the governmental systems of several of the developing nations.
- PS 320 **INTERNATIONAL RELATIONS (4-0) 4**
 An examination of international politics, with special emphasis on the relationships of security, sovereignty, nationalism, economic objectives, power, and international law to peace and war.
- PS 334 **U.S. CONSTITUTIONAL LAW I (3-0) 3**
 A study of the nature and scope of American constitutional principles as developed through case studies of Supreme Court decisions. The emphasis is on cases dealing with federalism, the powers of the national government, and interstate obligations.
- PS 335 **U.S. CONSTITUTIONAL LAW II (3-0) 3**
 Case studies of Supreme Court decisions dealing with the relationship of the citizen to government, citizenship, and individual liberties.
- PS 337 **U.S. FOREIGN POLICY (3-0) 3**
 A study of United States Foreign Policy from the American Revolution to the present day with emphasis on current policy and how it is made.
- PS 388 **CONTEMPORARY POLITICAL ANALYSIS (3-0) 3**
 A study focusing on historic and newer methods of research in political science, on voter-behavior and other studies, and on the contributions of the other sciences to political science.
- PS 486 **POLITICAL THOUGHT (5-0) 5**
 Primarily a study of the ideas of both early-day and present-day political philosophers. Students read the original writings of the philosophers.
Prerequisite: consent of instructor.
- PS 496 **SEMINAR (3-0) 3**
 Students prepare and present library research papers.
Prerequisites: Senior standing and consent of instructor.
- PS 499 **INDEPENDENT STUDY 1-3**
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: approval of Department Chairman.

SPANISH see FOREIGN LANGUAGES

SOCIOLOGY AND GEOGRAPHY

Associate Professor Daniel J. Schler; Instructor Mary Kay Cordill.

Fort Lewis College offers courses in both Sociology and Geography which may be taken as electives by those desiring a broad background in the social sciences or knowledge of the study of minority groups.

COURSE OFFERINGS

- Soc 101 INTRODUCTION TO SOCIOLOGY (3-0) 3
An elementary survey of the field of Sociology including subject matter, methods, and theory.
- Soc 241 MODERN SOCIAL ORGANIZATION (3-0) 3
Study of complex modern social structures and institutions including bureaucracies, cities, and economic organizations.
- Soc 251 THE COMMUNITY (3-0) 3
A review and appraisal of community theories, studies, and processes of change.
- Soc 263 CONTEMPORARY SOCIAL PROBLEMS (3-0) 3
A study of culture and its relation to specific social problems.
- Soc 275 THE SOCIOLOGY OF EDUCATION IN (3-0) 3
CONTEMPORARY SOCIETIES
An examination of the structure and operation of educational organizations in contemporary American society. Classrooms, schools, school systems, higher education, and governmental educational agencies are examined in terms of the activities they carry out and the social impact of these activities.
- Soc 279 HISPANO IN THE SOUTHWEST (3-0) 3
A study of the historical, social, and economic position of the Hispano in the southwestern portion of the United States.
- Soc 301 SOCIAL STRATIFICATION (3-0) 3
The comparative study of social stratification systems, emphasizing the dynamics of modern class society but including study of caste, estate, and other stratification systems.
Prerequisite: one course in Sociology.

- Soc 321 URBAN SOCIAL SYSTEMS (3-0) 3
 A study of the city in terms of its various social systems, group life, residential and institutional patterns, processes of interaction, demographic processes, and patterns of growth and change.
Prerequisite: one course in Sociology.
- Geog 271 WORLD GEOGRAPHY (3-0) 3
 An introduction to world geography; physical and cultural regions; development of natural resources.

SPEECH see ENGLISH AND SPEECH

THEATRE

Associate Professor Ralph Dale O'Keefe; Instructor Judy L. Marold.

The theatre, as a part of the liberal arts environment, seeks to give students an outlet for creative expression through the theatrical medium. Emphasis, therefore, is on the creative aspect of theatrical art with production and performance techniques acquired through participation.

The theatre offers a strong program each year of classical, modern, and workshop productions serving the two-fold purpose of student participation and an enhancement of the cultural environment. Workshops are devised to attract general community participation.

The general program prepares theatre oriented students to qualify for graduate work in theatre arts.

MINOR FOR SECONDARY TEACHERS

Thea 125 Acting I	2	
Thea 126 Acting II	2	
Thea 144 Theatre Production I	3	
Thea 181 Theatre Workshop	2	
Thea 247 History of the Theatre	5	
Thea 344 Theatre Production II	3	
Eng 151 Oral Interpretation of Literature	3	20

COURSE OFFERINGS

- Thea 125 ACTING (1-2) 2
 A study of the problems and techniques involved in creating a role for the stage. Emphasis on body and voice techniques, relaxation, ease, and individual creativity.

SCHOOL OF BUSINESS ADMINISTRATION

ACCOUNTING

BUSINESS ADMINISTRATION

BUSINESS EDUCATION

ECONOMICS

Art Brintnall, Director

SCHOOL OF BUSINESS ADMINISTRATION

The School of Business Administration prepares students for responsible positions in business and industry, for teaching, or for admission to graduate school.

In accordance with the highest standards of education for business, students are expected to acquire a sound background in the liberal arts as a basis for mature understanding of the problems of business leadership and management. Some basic business courses are offered in the student's first two years. However, the program is largely at an upper-division level and students are advised to concentrate their professional courses in the junior and senior years.

Certain courses are required for all students. These "core" courses cover that body of knowledge unique to an understanding of business institutions, the economic system and the principles of leadership. In addition, opportunity is provided for specialization. The student may major in one of the following areas:

- Accounting
- Business Administration
- Business Education
- Economics

The School is characterized by its professional attitude and its close student-faculty relationship. In addition to its concern for good classroom instruction, the faculty believes that much learning takes place through personal and informal contacts with students.

SCHOOL OF BUSINESS ADMINISTRATION FACULTY

Professor Arthur K. Brintnall (Director); Associate Professors Edward N. Dubois, Jerry M. Kaufman; Assistant Professors Leonard D. Atencio, Billie D. Cox, Manson P. Dillaway, Edward S. Freienmuth, Aubrey E. Holderness, Richard K. Schaefer, Charles K. Staley; Instructors Mary Ann Dodge, Alice J. Tochi.

ACCOUNTING

The objectives of the program in Accounting are: To provide opportunity for students to develop into thinking, well-balanced, social beings; to become familiar with the economic, political, and social climate in which modern business is conducted; to familiarize the student with the primary analytical tools and methods; and to develop capacity for objective analysis, for leadership, for appreciation of cultural values, and an awareness of the individual's social responsibility.

Students successfully completing the major in Accounting are: (1) prepared to embark immediately upon a career as a public, private or governmental accountant, and (2) provided with a foundation in accounting and business administration that will enable them to pursue effectively graduate study in these fields.

The Accounting major at Fort Lewis College has been approved by the State Board of Accountancy of Colorado as preparation for the Certified Public Accountant Examination and for those receiving C.P.A. certificates.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ACCOUNTING

General Studies	41	
<i>Specific Departmental Requirements</i>		
Acc 225 Elementary Accounting I	4	
Acc 226 Elementary Accounting II	4	
Acc 321 Intermediate Accounting I	3	
Acc 322 Intermediate Accounting II	3	
Acc 325 Cost Accounting I	3	
Acc 330 Income Tax Accounting	3	
Acc 433 Advanced Accounting	4	
	24	
<i>Other Departmental Requirements</i>		
Acc 436 Auditing	3	
or		
Acc 437 Internship in Public Accounting	3	
Acc Elective	3	
	6	30
<i>Auxiliary Requirements from Other Departments</i>		
Appropriate Mathematics Course	4	
BE 221 Business Communications	3	
BA 251 Business Statistics	3	
BA 311 Business Law	3	
Econ 261 Principles of Economics I	3	
Econ 262 Principles of Economics II	3	
BA-Econ 496 Seminar		
or		
BA-Econ 499 Independent Study	2	
	21	21
<i>Electives</i>		36
TOTAL REQUIREMENTS FOR GRADUATION		128

**ACCOUNTING MAJOR
SUGGESTED COURSE SEQUENCE**

	FALL	WINTER	
1st Year			
Math	4—5	General Studies	3
Fresh. Seminar 101	4	Fresh. Seminar 102	4
General Studies	3	General Studies	3
P.E.	1	P.E.	1
Electives	3—4	Electives	5
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16
2nd Year			
Acc. 225	4	Acc. 226	4
Econ. 261*	3	Econ. 262*	3
B.A. 251	3	B.E. 221	3
General Studies	3	General Studies	4
B.A. 311	3	Electives	2
	<hr style="width: 50%; margin: 0 auto;"/> 16		<hr style="width: 50%; margin: 0 auto;"/> 16
3rd Year			
Acc. 321	3	Acc. 322	3
Acc. 325	3	Acc. Elective	
General Studies	6	Cost 326 or	
Electives	4	Managerial 319	6
	<hr style="width: 50%; margin: 0 auto;"/> 16	General Studies	6
		Electives	4
			<hr style="width: 50%; margin: 0 auto;"/> 16
4th Year			
Acc. 330	3	Seminar 496	2
Acc. 433	4	Acc. 436 or	
Electives	9	Acc. 437	3
	<hr style="width: 50%; margin: 0 auto;"/> 16	General Studies	3
		Electives	8
			<hr style="width: 50%; margin: 0 auto;"/> 16

It is recommended that at least one-half of the noted electives be in the business field.

*Either 261 or 262 should be taken in the sophomore year. The one not taken then should be deferred to the junior year.

- Acc 322 INTERMEDIATE ACCOUNTING II (3-0) 3
The art of financial statement presentation is studied with particular emphasis being placed on the presentation of long-term liabilities and stockholders' equity. Financial statement analysis and funds flow reporting are covered.
Prerequisite: Acc 321.
- Acc 325 COST ACCOUNTING I (3-0) 3
This course develops cost accounting procedures applicable to job order and process cost systems. Emphasis throughout the course is on the processing and reporting of a firm's historical and projected cost data to assist management in planning, controlling and analyzing operations and costs.
Prerequisite: Acc 226.
- Acc 326 COST ACCOUNTING II (3-0) 3
A continuation of the study of Cost Accounting with emphasis on standard costs and analysis of cost for profit decision making purposes.
Prerequisite: Acc 325.
- Acc 330 INCOME TAX ACCOUNTING (3-0) 3
A brief history of the income tax, income tax accounting, and study of current federal income tax provisions are presented.
Prerequisite: Acc 321 or consent of instructor.
- Acc 334 GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (3-0) 3
Fund accounting, budgetary accounts, and control are covered. The course also includes presentation of accounting systems for governmental and institutional units.
Prerequisite: Consent of instructor.
- Acc 335 SURVEY OF ACCOUNTING THEORY (3-0) 3
TRENDS
Examination of the ideas of leading accounting theoreticians of the past and present with emphasis placed on the reflection of these ideas in accounting practice.
Prerequisite: Acc 322.
- Acc 433 ADVANCED ACCOUNTING (4-0) 4
This course develops advanced theory in relationship to financial statement items. Included are income measurement, changes in creditor and proprietary interests, consignments, branch offices, consolidations; insolvency, estates, trusts, and foreign exchange.
Prerequisite: Acc 322.

- Acc 436 AUDITING - THEORY AND PRACTICE (3-0) 3
Functions of the independent public accountant are stressed. The course includes audit reports and opinions, 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.
Prerequisite: Acc 322 and consent of instructor.
- Acc 437 INTERNSHIP IN PUBLIC ACCOUNTING (—) 3
Accounting students in their senior year may be placed with a selected certified public accounting firm where they will serve as a member of the accounting staff. The experience gained in this program will provide a basis for a term paper to be submitted at the end of the trimester. The student's performance will be periodically evaluated by his supervisors in the firm.
Prerequisite: Consent of the instructor.
- Acc 438 C.P.A. REVIEW (3-0) 3
General advanced accounting problems of the type found on C.P.A. examinations are subjected to analysis. Accounting theory is applied and procedures for solution are rated.
Prerequisite: Consent of instructor.
- BA 496 SEMINAR (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- BA 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Director, School of Business Administration.

BUSINESS ADMINISTRATION

The Business Administration program prepares the student for leadership positions in today's society, or for entrance into graduate school.

Students may elect courses that emphasize a particular area of management. However, all are expected to develop a basic understanding of the social and economic environment of business, the principles of leadership and organization theory, the quantitative tools of decision making and the functional areas of the firm.

Emphasis is placed on developing leaders and on a professional, well balanced understanding of management.

**BACHELOR OF ARTS DEGREE WITH A MAJOR IN
BUSINESS ADMINISTRATION**

General Studies		41
<i>Specific Departmental Requirements</i>		
BA 101 Business Management	3	
BA 251 Business Statistics I	3	
BA 252 Business Statistics II	3	
BA 311 Business Law	3	
BA 340 Marketing	3	
BA 405 Business Policies and Public Relations	3	
BA 496 Seminar		
or		
BA 499 Independent Study	2	
<i>Other Requirements</i>		
Choice of 6 hours from the following:		
BA 301 Personnel Management	3	
BA 480 Corporation Finance	3	
Acc 319 Managerial Accounting	3	
Econ 361 Managerial Economics	3	
	6	
*Choice of 6 hours from the following:		
BA 302 Industrial Relations	3	
BA 342 Retailing	3	
BA 483 Investments	3	
BA 486 Insurance	3	
BA 489 Real Estate	3	
Acc 321 Intermediate Accounting	3	
Acc 325 Cost Accounting	3	
Econ 356 Intermediate Economic Theory and Analysis	3	
Econ 365 Monetary Economics	3	
	6	32
*These 6 hours would be satisfied by taking all of the 12 hours in the first category.		
<i>Auxiliary Requirements from other Departments</i>		
Econ 261 Principles of Economics I	3	
Econ 262 Principles of Economics II	3	
Acc 225 Elementary Accounting I	3	
Acc 226 Elementary Accounting II	3	
Appropriate Mathematics course	3	
	17	17
<i>Electives</i>		38
TOTAL REQUIRED FOR GRADUATION		128

**BUSINESS ADMINISTRATION MAJOR
SUGGESTED COURSE SEQUENCE**

	FALL		WINTER
1st Year			
Math	5	Math	4
Fresh. Seminar 101	4	Fresh. Seminar 102	4
General Studies	3	General Studies	3
P.E.	1	P.E.	1
B.A. 101	3	Electives	4
	—		—
	16		16
2nd Year			
Econ. 261	3	Econ. 262	3
B.A. 251	3	B.A. 252	3
General Studies	4	General Studies	4
Electives	6	Electives	6
	—		—
	16		16
3rd Year			
Acc. 225	4	Acc. 226	4
B.A. 340	3	B.A. 311	3
General Studies	6	General Studies	6
Electives	3	Electives	3
	—		—
	16		16
4th Year			
B.A. 496 or 499	2	B.A. 405	3
B.A. 301 or 480	3	Acc. 319 or Econ. 361	3
General Studies	3	General Studies	3
Electives	8	Electives	7
	—		—
	16		16

(One-half of all elective hours should be in Business courses.)

At least six hours of the electives must be selected from the following: B.A. 302, B.A. 342, B.A. 483, B.A. 486, B.A. 489, Acct. 321, Acct. 325, Econ 356, Econ 365.

COURSE OFFERINGS

BA 101 **BUSINESS MANAGEMENT** (3-0) 3
 Fundamentals of the administration and organization of the firm. Human relations are stressed through outside readings and cases.

- BA 251 BUSINESS STATISTICS I (3-0) 3
An introduction to the methods used in economics and business for the collection and analysis of numerical data for decision-making purposes. The course covers data collection, methods of statistical description, statistical inference including estimation, simple hypothesis testing and statistical decision theory and an introduction to index number construction.
Prerequisite: One semester of mathematics.
- BA 252 BUSINESS STATISTICS II (3-0) 3
A continuation of Business Statistics I. Topics covered include simple and multiple regression and correlation, analysis of variance, and time series analysis.
Prerequisite: BA 251.
- BA 301 PERSONNEL MANAGEMENT (3-0) 3
Personnel selection, placement, training, promotion, wage incentives, absenteeism, and counseling. Job analysis and evaluation, safety and health, employee services and human relations.
Prerequisite: BA 101.
- BA 302 INDUSTRIAL RELATIONS (3-0) 3
(Labor Economics)
Principles of labor bargaining and a critical examination of wages, unemployment, collective bargaining, wage regulations, and social insurance.
Prerequisite: BA 301.
- BA 311 BUSINESS LAW (3-0) 3
Basic principles of law as applied to business transactions. Study of the law of contracts and sales, sales warranties, law of agency, negotiable instruments and personal property is included.
- BA 340 PRINCIPLES OF MARKETING (3-0) 3
The first part of the course is devoted to a broad investigation of the channels of distribution with an emphasis on marketing functions, policies and costs. The courses are concluded with an investigation of the marketing institutions, with special emphasis on retailing.
Prerequisite: Econ 261 or concurrent registration.
- 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.
Prerequisite: BA 340.

- BA 405 BUSINESS POLICIES AND PUBLIC RELATIONS (3-0) 3
 The first part of the course concerns the firm, its place in society, its responsibilities and duties. A study of the history and present impact of governmental regulations and activities as it affects the businessman. The course concludes with an analysis of the problems encountered by management in its daily operations. The case method is stressed.
Prerequisite: BA 101 or concurrent registration.
- BA 480 CORPORATION FINANCE (3-0) 3
 The financial structure of various types of business organizations, including sole proprietorships, partnerships, and corporations. Methods of securing and managing funds to meet short and long term capital requirements are presented.
Prerequisite: Acc 226 or concurrent registration.
- BA 483 INVESTMENTS (3-0) 3
 Analysis of several theories of investment followed by an investigation and study of security markets. Corporate bonds and stocks are stressed; however, federal and state bonds and private investment opportunities are also considered. Taught on demand.
- BA 486 INSURANCE (3-0) 3
 Coverage available, buying methods, and general procedures of operation of all types of insurance companies. Special emphasis on the analysis of the standard or more common forms of fire, marine, casualty, and life insurance contracts. Taught on demand.
- BA 489 REAL ESTATE (3-0) 3
 The regulation, practices, legal aspects, and professional ethics of the real estate business. Some consideration is given to real estate appraisal techniques and theory. Taught on demand.
Prerequisite: BA 311.
- BA 496 SEMINAR (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- BA 499 INDEPENDENT STUDY 1-3
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Director, School of Business Administration.

BUSINESS EDUCATION

There are two programs offered in Business Education: Business Education and Secretarial Science.

The teacher-education curriculum is designed specifically for the preparation of teachers of business subjects. Students who are not enrolled in the teacher-education curriculum may elect to enter the vocationally oriented program, Secretarial Science, and upon completion, receive an Associate of Arts degree.

Each curriculum is constructed to insure that the students may receive a broad general education and a sound foundation in the basic areas of business knowledge.

The objective of the programs is to develop in each student a professional outlook with the ability to perform successfully the duties demanded in his pursuits.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN BUSINESS EDUCATION

General Studies		41	
<i>Specific Requirements in Business Education:</i>			
BE 108 Advanced Typing		2	
BE 112 Intermediate Shorthand		3	
BE 144 Quantitative Business Techniques		2	
BE 213 Advanced Shorthand & Transcription		3	
BE 221 Business Communications		3	
BE 232 Secretarial Procedures		3	
		16	
<i>Other Requirements</i>			
Acc 225 Elementary Accounting I		4	
Acc 226 Elementary Accounting II		4	
Econ 261 Principles of Economics I		3	
BA 311 Business Law		3	
BA 496 Seminar or BA 499 Independent Study		2	
		16	32
<i>Auxiliary Requirements from Other Departments</i>			
Appropriate Mathematics Course		4	
Education Courses (see secondary education section)	24		28
<i>Electives</i>			27
TOTAL REQUIRED FOR GRADUATION			128

BUSINESS EDUCATION MAJOR
SUGGESTED COURSE SEQUENCE

	FALL		WINTER
1st Year			
General Studies	3	General Studies	3
Fresh. Seminar 101	4	Fresh. Seminar 102	4
P.E.	1	P.E.	1
Math	4	Psych. 157, General	3
B.E. 108, Typing	2	B.E. 144	2
B.E. 111 or 112	2	B.E. 112 or 213, Shorthand	3
Shorthand	3		—
	—		16
	17		
2nd Year			
General Studies	4	General Studies	7
Econ. 261	3	Psych. 218, Ed. Psych.	3
B.E. 221, Business Communications	3	Ed. 250, Admissions Sem.	3
B.E. 213, Shorthand	3	B.E. 232, Sec. Pro.	3
Elective	3		—
	—		16
	16		
3rd Year			
General Studies	3	General Studies	6
Acc. 225	4	Acc. 226	4
B.A. 311, Business Law	3	Electives	7
Electives	6		—
	—		17
	16		
4th Year			
General Studies	5	Ed. 402, Sec. Ed.	3
Seminar, B.A. 496 or B.A. 499	2	Ed. 480, Methods of Teaching Business	3
Electives	9	Ed. 495, (includes practice teaching)	8
	—		—
	16		14

ASSOCIATE OF ARTS DEGREE IN SECRETARIAL SCIENCE

General Studies

FS 101 Freshman Seminar	4	
FS 102 Freshman Seminar	4	
PE 101 Physical Activity	1	
PE 102 Physical Activity	1	
Four courses to be selected from the four distribution groups of General Studies, one from each group	12	
	22	22

Specific Secretarial Science Requirements

Acc 225 Principles of Accounting I	4	
Econ 261 Principles of Economics I	3	
BE 112 Intermediate Shorthand	3	
BE 213 Advanced Shorthand and Transcription	3	
BE 221 Business Communications	3	
BE 232 Secretarial Procedures	3	
BE 144 Quantitative Business Techniques	2	
	21	

Four business courses to be selected from Accounting, Economics, Business Administration or Business Education	12	33
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Electives 9

**TOTAL FOR OBTAINING ASSOCIATE OF ARTS DEGREE
IN SECRETARIAL SCIENCE** **64**

SECRETARIAL SCIENCE SUGGESTED COURSE SEQUENCE

	FALL		WINTER
1st Year			
General Studies	3	General Studies	3
Fresh. Seminar 101	4	Fresh. Seminar	4
P.E.	1	P.E.	1
B.E. 111 or 112, Shorthand	3	B.E. 112 or 213, Shorthand	3
B.E. 144	2	Econ. 261	3
Elective	3	Elective	3
	—		—
	16		17
2nd Year			
General Studies	3	General Studies	3
Acc. 225	4	B.E. 232, Sec. Pro.	3
B.E. 213, Shorthand	3	Electives	10
B.E. 221, Bus. Com.	3		—
Elective	3		16
	—		
	16		

COURSE OFFERINGS

- BE 107 INTERMEDIATE TYPING (2-0) 2
 The development of speed and accuracy in producing business forms.
Prerequisite: One year of high school typing or ability to pass the typing qualification examination.
- BE 108 ADVANCED TYPING (2-3) 2
 The development of skill in office production. Business letters, business forms, tabulations, and manuscripts are presented. Use of electric machines.
- BE 111 ELEMENTARY GREGG SHORTHAND (2-3) 3
 The basic principles of reading and writing shorthand, and dictation of practiced material.
- BE 112 INTERMEDIATE SHORTHAND (2-3) 3
 The practice of dictation and transcription including shorthand vocabular building.
Prerequisite: BE 111 or permission of instructor.
- BE 144 QUANTITATIVE BUSINESS TECHNIQUES (1-3) 2
 The latest arithmetical techniques used in business and accounting. Stress is placed on applications including a thorough instruction in the use of rotary and listing calculators, electronic calculator, key-driven, and ten-key adding machines.
- BE 213 ADVANCED SHORTHAND AND TRANSCRIPTION (2-3) 3
 The practice of advanced dictation and speed building, and development of skill in shorthand.
Prerequisite: BE 112 or permission of instructor.
- BE 221 BUSINESS COMMUNICATIONS (3-0) 3
 A course built around the basic concept that both the functions and objectives of business are achieved through effective communication. Includes the processes of business communication and the conventions of business writing.
- BE 232 SECRETARIAL PROCEDURE (2-2) 3
 Basic secretarial principles and procedures, including filing procedures, mail and telephone techniques, machine transcription, duplicating machines, receiving callers, business etiquette, and personal transportation.
Prerequisite: BE 108 or permission of instructor.

- BE 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.
- BA 496 **SEMINAR** (2-0) 2
 Students prepare and present library research papers. *Prerequisite:* Senior standing and permission of instructor.
- BA 499 **INDEPENDENT STUDY** 1-3
 Individual research is conducted under the supervision of a faculty member. *Prerequisite:* Approval of Director, School of Business Administration.

ECONOMICS

The program in Economics offers, within the general framework of liberal arts, courses designed to meet the needs and desires of students who major in economics. The major in economics is designed to (1) provide the student with an understanding of our present-day economic system and an understanding of economics and its relationship to other disciplines, and (2) prepare the student for graduate work, employment in government and business, and teaching in high schools.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ECONOMICS

General Studies	41
<i>Specific Departmental Requirements</i>	
Econ 261 Principles of Economics I	3
Econ 262 Principles of Economics II	3
Econ 356 Intermediate Micro-theory	3
Econ 364 Intermediate Macro-theory	3
Econ 470 Quantitative Economics	3
BA 496 Seminar or BA 499 Independent Study	2
	17

***Other Departmental Requirements**

Any 5 of the following courses:

Econ 361	Managerial Economics	3	
Econ 365	Monetary Economics	3	
Econ 367	Comparative Economics Systems	3	
Econ 369	Public Finance	3	
Econ 371	International Economics	3	
Econ 468	History of Economic Thought	3	
Econ 475	Regional Economics	3	
		15	32

****Auxiliary Requirements from Other Departments**

BA 251	Business Statistics I	3	
BA 252	Business Statistics II	3	
		6	6

Electives 49

TOTAL REQUIRED FOR GRADUATION 128

*With approval of the Director, School of Business Administration, any two (2) of the following courses may be substituted for courses listed as *other requirements*.

BA 302	Industrial Relations	3
BA 480	Corporation Finance	3
Acc 319	Managerial Accounting	3

**A study of statistics is absolutely essential to an economics degree; the student must take these courses if he plans to be a professional economist or graduate student. Students will also be advised that a meaningful degree in economics should include Elementary Accounting I and II plus mathematics through Calculus I. The accounting and mathematics will, however, be taken at the student's choice.

**MAJOR IN ECONOMICS
SUGGESTED COURSE SEQUENCE**

FALL		WINTER	
1st Year			
Fresh. Seminar 101	4	Fresh. Seminar 102	4
P.E.	1	P.E.	1
General Studies	6-9	General Studies	6-9
Electives	5-2	Electives	5-2
16		16	
2nd Year			
General Studies	6-9	General Studies	5-6
Economics 261	3	Economics 262	3
Math	5	B.A. 251	3
Electives	2-0	Electives	4-5
16-17		16	
3rd Year			
General Studies	6	General Studies	3
Economics 356	3	Economics 364	3
B.A. 252	3	Economics 361, 369, 371, or 468	3-6
Economics 365, 367, 369, or 371	3-6	Math	4
Electives	1-0	Electives	3-0
16-18		16	
4th Year			
Economics 365, 367, 371, or 475	6-3	Economics 361, 369, 468, or 475	3
Economics 470	3	Economics 496 or 499	2-3
Electives	7-10	Electives	11-10
16		16	

It is suggested that electives should include Acc. 225 and 226 and 6-9 hours of Business Administration courses.

COURSE OFFERINGS

- Econ 261** PRINCIPLES OF ECONOMICS (3-0) 3
A course in economic life, institutions, and problems, stressing the national income approach. Introduction to demand, supply, and prices is included.
- Econ 262** PRINCIPLES OF ECONOMICS (3-0) 3
Price determination and income distribution in a capitalistic economy. Investigation of current economic issues with particular emphasis on labor-management relations, agriculture, international trade, and government regulation of business is included.

- Econ 356 INTERMEDIATE MICRO THEORY AND ANALYSIS (3-0) 3
 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.
Prerequisite: Econ 262.
- Econ 361 MANAGERIAL ECONOMICS (3-0) 3
 This course bridges the gap between economic theory and business decision. It shows how to measure profits for management decisions and how to use demand analysis for improving sales forecasting, pricing, promotional planning, and new product development.
Prerequisite: Econ 262.
- Econ 364 INTERMEDIATE MACRO THEORY (3-0) 3
 The goal is to enable the student to discuss analytically current policy problems. An analysis of the forces which generate fluctuations in the level of economic activity of the country.
Prerequisite: Econ 261.
- Econ 365 MONETARY ECONOMICS (3-0) 3
 Money, monetary systems, control banking, monetary theory, and the functions of various financial institutions including commercial banks. Included is an historical, statistical, and analytical consideration of the business cycle using modern techniques of national income accounting.
Prerequisite: Econ 261.
- Econ 367 COMPARATIVE ECONOMIC SYSTEMS (3-0) 3
 An analysis and comparison of capitalism, socialism and communism and a survey of the historical background in which these systems developed.
Prerequisite: Consent of instructor.
- Econ 369 PUBLIC FINANCE (3-0) 3
 An analysis of the financing of federal, state, and local units of government. Emphasis given to problems of taxation, expenditures and debt management.
Prerequisite: Econ 261.
- Econ 371 INTERNATIONAL ECONOMICS (3-0) 3
 Classical, neo-classical, and modern trade theory. Comparative analysis of marketing functions, institutions and structures indifferent national environments. Exchange rates, import-export monopolies, quotas, tariffs, and other foreign fiscal policies.
Prerequisite: Econ 261 and 262.

- Econ 468 HISTORY OF ECONOMIC THOUGHT (3-0) 3
An analysis of economic thought. The writing of Plato, Aristotle, Xenophon through Merchantilist ideas; the classical tradition including Marx, the Marginalists and opponents including Jevons, Menger, Marshall, Pareto, Weber, Veblen; and the contemporary economists including Keynes, Chamberlain, Clark and Schumpeter.
Prerequisite: Consent of instructor.
- Econ 470 QUANTITATIVE ECONOMICS (3-0) 3
An introduction of the methods and procedures for quantifying economic relationships. Included are mathematical economics, statistical procedures in economics, and the formulation and estimation of economic models.
Prerequisite: Consent of instructor.
- Econ 475 REGIONAL ECONOMICS (3-0) 3
A study in the economic structure, stability and growth of regional and urban economics. Included is an analytical approach to the location of economic activity, and methods of measuring and analyzing regional and urban economic performance. Attention to be focused on problems unique to the southwestern region of the national economy.
Prerequisite: Econ 364 or consent of instructor.
- BA 496 SEMINAR (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- BA 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Director, School of Business Administration.

SCHOOL OF EDUCATION

ELEMENTARY EDUCATION

SECONDARY EDUCATION

PHYSICAL EDUCATION

PSYCHOLOGY

Donald F. Whalen, Director

DEPARTMENT OF TEACHER EDUCATION

Professors Willard O. Bowman, Donald F. Whalen; Associate Professor Bill D. Engman; Assistant Professors Edith W. Brochu, Jimmy A. Gage, Myron W. Johns, Charles H. Reid, Jr., Bruce A. Watt.

The teacher education program is designed to prepare students to enter the teaching profession at the secondary and elementary levels. The program presents the skills, understandings, techniques, attitudes, knowledge, and appreciations necessary for students to become successful teachers. Students from other areas of study may take education courses as electives if they desire a broad understanding of American schools.

Procedures have been established for a college student to complete the teacher education program and to be recommended by the College to the State Department of Education for a teaching certificate. A teacher placement service is maintained.

The objectives of the Department of Education are:

1. To recruit persons to the teacher education program who possess potential as competent teachers.
2. To provide professional preparation for teachers entering the profession, as well as enrichment for those persons wishing to enhance their teaching competence.
3. To provide understanding and insight concerning the social, intellectual, and psychological nature of man.
4. To contribute to foundation courses in other academic areas.
5. To serve as consultant to area public schools in the effort to improve and update curricular programs and competence of teaching personnel.

ADMISSION TO THE PROGRAM:

The student makes application for admission to the program while enrolled in Ed. 201 Teacher Education Admissions Seminar. Admission requirements include a cumulative GPA of 2.0 or higher; completion of two semesters of Freshman English or Freshman Seminars with grades of "C" or better and the recommendation of the professional education screening committee. The professional education screening committee in considering an application for admission to the Teacher Education Program, takes into consideration these factors: character, personal adjustment, physical fitness, completion of necessary course work and scholarship.

For those students enrolling at Fort Lewis College after January 1, 1971, admission to student teaching will require an overall grade point average of 2.3 and a G.P.A. of 2.5 in the student's major, and in professional education courses.

There are additional academic and course completion requirements prior to actual student teaching. These are outlined in the Student Teaching Handbook available through the Department of Teacher Education.

Application for student teaching must be made on or before *October 1* for student teaching placement in the winter trimester. Application for fall trimester student teaching must be made by *June 1*.

Students transferring to Fort Lewis College from other collegiate institutions will be accepted for the Teacher Education Program depending upon their prior preparations. Transfer students must meet a *one term* residency requirement prior to student teaching as well as the usual prerequisites to student teaching.

SECONDARY EDUCATION PROGRAM

Bill D. Engman, Chairman

General Studies	41
Courses in major academic field	32-42
<i>Specific Departmental Requirements</i>	
Ed 201 Teacher Education Admissions Seminar	3
Ed 402 Secondary Education	4
Ed 480 Methods of Teaching (subject matter)	2
Ed 495 Laboratory Experience & Seminar in Secondary School	8 17
<i>Additional Departmental courses recommended</i>	
Ed 325 Guidance in the Public Schools	3
Ed 346 Instructional Media	3
Ed 365 Educational Measurement	3
<i>Auxiliary Requirements from other departments</i>	
Psych 157 General Psychology	3
Psych 218 Psychological Foundations of Education	3 6
<i>Electives</i>	32-22
TOTAL REQUIRED FOR GRADUATION	128

ELEMENTARY EDUCATION PROGRAM

Jimmy A. Gage, Chairman

BACHELOR OF ARTS WITH A MAJOR IN
ELEMENTARY EDUCATION

General Studies 41

Specific Departmental Requirements

Ed 201 Teacher Education Admissions Seminar	3	
Ed 260 Reading in the Elementary School	3	
Ed 305 Mathematics in the Elementary School	3	
Ed 315 Social Studies in the Elementary School	3	
Ed 411 Science in the Elementary School	3	
Ed 433 Language Arts in the Elementary School	3	
Ed 494 Laboratory Experience & Seminar in the Elementary School	8	
Additional approved course in Education	3	
	29	29

Auxiliary requirements from other departments

Psych 157 General Psychology	3	
Psych 218 Psychological Foundations of Education	3	
Psych 254 Developmental Psychology	3	
	9	9

Areas of Concentration

Students majoring in elementary education will select two areas of concentration from the following areas: Art, English, Mathematics, Music, Physical Education, Science, and Social Science. They must also elect to follow one of two plans. *Plan I* requires that a minimum of 18 hours (6 advanced) of approved course work be completed in each of the two concentration areas. *Plan II* requires the student to complete a minimum of 24 hours (9 advanced) in one concentration area, and at least 12 hours in the other area. The elementary education major must also complete two (2) courses totaling at least 6 hours each in English, Mathematics, and Social Science, and 8 hours in Science.

	Plan I	Plan II	
1st area of concentration	18	24	
2nd area of concentration	18	12	
3rd academic area	6	6	
4th academic area	6	6	
	48	48	48

Additional Requirements (in case not included in areas of concentration)

Engl 327 Children's Literature	3	
Art 312 Art in the Elementary School	3	
Mu 316 Music in the Elementary School	3	
PE 242 Physical Education and Health in the Elementary School	3	
	13	13

TOTAL REQUIRED FOR GRADUATION140

NOTE: This large total can in most cases be reduced to 128 or below because many of the concentration requirement courses can be counted for General Studies courses as well.

EARLY CHILDHOOD EDUCATION

A program in Early Childhood Education is available for students wishing to specialize in teaching the kindergarten or nursery school age child. These courses are typically offered in the summer or extension sessions. This specialization is in addition to the regular Elementary Education Program.

Specific Departmental Requirements:

Ed 352 Individual Practicum in Early Childhood Education	3
Ed 353 Growth and Development of the Young Child	3
Ed 454 Language Arts for Early Childhood	3
Ed 455 Modern Trends in Early Childhood Education	3
	12

COURSE OFFERINGS

Ed 201 TEACHER EDUCATION ADMISSIONS (3-0) 3 SEMINAR

A course to prepare and select prospective teachers. Teaching as a profession, history and philosophy of education, school organization and administration, and observational experiences are also included. Students will apply for admission to the Teacher Education Program during this course.

Prerequisite: At least 30 hours of college credit.

- Ed 211 **TEACHER AIDE PRACTICUM** 1-3
 Designed to provide students with practical experience in working with children and youth in the school setting. Placement in local or nearby schools; experience to consist of a regular assignment in one teaching situation for the duration of the term — not to exceed 12 hours per week. Assignments highly individualized. Experience guided by the public school principal. Credit based on ratio of one hour per 25 contact hours.
- Ed 260 **READING IN THE ELEMENTARY SCHOOL** (3-0) 3
 Scope and sequence of reading in the elementary school with emphasis upon methods of teaching reading at the various maturity levels of children.
Prerequisite: Ed 201 or prior approval of instructor.
- Ed 305 **MATHEMATICS IN THE ELEMENTARY SCHOOL** (3-0) 3
 Content and procedures in the teaching of modern mathematics in the elementary school.
Prerequisite: Admission to Teacher Education Program and 6 semester hours of mathematics or approval of instructor.
- Ed 315 **SOCIAL STUDIES IN THE ELEMENTARY SCHOOL** (3-0) 3
 Content and procedures in the social studies program of the elementary school.
Prerequisite: Admission to Teacher Education Program and 6 semester hours of social science or approval of instructor.
- Ed 320 **INSTRUCTIONAL MEDIA** (3-0) 3
 A study of the place of instructional media in the learning process; general 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; demonstration and practice in the use of instructional media in teaching.
Prerequisite: Admission to Teacher Education Program or approval of instructor.
- Ed 325 **GUIDANCE IN THE PUBLIC SCHOOLS** (3-0) 3
 An introduction to the principles of guidance with emphasis on the role of the teacher and on guidance as an intrinsic part of teaching.
Prerequisite: Admission to Teacher Education Program or approval of instructor.

- Ed 352 PRACTICUM IN EARLY CHILDHOOD EDUCATION (0-3) 3
 Designed to provide students with practical experiences in working with young children. Student will receive training in classroom observational techniques and will engage in such practices as case studies and sociological and psychological action research, culminating in the submission of a research paper on an appropriate area in the field.
- Ed 353 GROWTH & DEVELOPMENT OF THE YOUNG CHILD (3-0) 3
 A study of the physical, mental, social, emotional, and psychological growth and development of the child from conception through early childhood. Emphasis is given to the child in the school setting.
Prerequisite: Admission to the Teacher Education Program.
- Ed 362 DEVELOPMENTAL READING IN THE SECONDARY SCHOOL (3-0) 3
 The course includes reading theory, reading as skills development, techniques and materials for the detection of individual differences in reading ability, readiness for reading subject matter, vocabulary development in specific content areas, reading study skills, and increasing comprehension and reading rate.
- Ed 365 EDUCATIONAL MEASUREMENT (3-0) 3
 A presentation of the applications of measurement and its contributions to and usefulness in the education program.
Prerequisite: Admission to Teacher Education Program and Psych 218, or approval of instructor.
- Ed 402 SECONDARY EDUCATION (4-0) 4
 Organization and management of instruction and the principles of teaching as applied to the secondary school; case studies; and materials of instruction.
Prerequisite: Admission to Student Teaching.
- Ed 411 SCIENCE IN THE ELEMENTARY SCHOOL (3-0) 3
 Emphasis on helping prospective teachers to (1) analyze the science needs of elementary school children in the modern world; (2) select subject matter which will help pupils meet these needs; and (3) develop methods of teaching which will encourage scientific inquiry on the part of the learner.
Prerequisite: Admission to Teacher Education Program and 8 semester hours of laboratory science or approval of instructor.

- Ed 433 LANGUAGE ARTS IN THE (3-0) 3
 ELEMENTARY SCHOOL
 The adaptation of the various language arts content subjects to the needs and maturity levels of elementary school children. Emphasis is given to instruction in grammar, composition, spelling, listening, writing and speaking.
Prerequisite: Ed 201 or approval of instructor.
- Ed 454 LANGUAGE ARTS FOR EARLY (3-0) 3
 CHILDHOOD
 The various skills of language development of the young child are considered, and language arts curriculum materials for early childhood are surveyed.
Prerequisite: Admission to Teacher Education Program and Junior standing.
- Ed 455 MODERN TRENDS IN EARLY (3-0) 3
 CHILDHOOD EDUCATION
 Emphasis is given to recent developments which have influenced early childhood education programs, such as Head Start, Day Care, Follow Through, federal legislation, etc. A consideration of appropriate curriculum materials is also included.
Prerequisite: Admission to Teacher Education Program and Junior standing.
- Ed 461 DIAGNOSTIC AND REMEDIAL READING (3-0) 3
 A study of the diagnosis and teaching of children with reading difficulties with emphasis upon the development of appropriate skills through laboratory experience.
Prerequisite: Admission to Teacher Education Program and Ed 260, Reading in the Elementary School, or approval of instructor.
- Ed 480 METHODS OF TEACHING (SUBJECT (2-0) 2
 MATTER AREAS)
 A course designed to show the prospective teacher how to teach specific subjects in high school. Attention is given to the historical development and new trends within the subject matter area and their influence upon curriculum, learning, and teaching.
Prerequisite: Admission to Student Teaching.
- Ed 490 ADVANCED TOPICS IN EDUCATION (3-0) 3 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.

- Ed 494 LABORATORY EXPERIENCE AND (0-8) 8
 SEMINAR IN THE ELEMENTARY SCHOOL
 Directed observation and teaching in the public schools
 at the elementary level. Periodic seminars are held in
 which relevant areas of elementary school organization
 and management are discussed.
 Prerequisite: Admission to Student Teaching and senior
 standing.
- Ed 495 LABORATORY EXPERIENCE AND (0-8) 8
 SEMINAR IN THE SECONDARY SCHOOL
 Includes observation, participation, teaching, and allied
 activities under the direction of a selected regular
 teacher in a secondary school in consultation with Col-
 lege Supervisors.
 Prerequisite: Admission to Student Teaching.
- Ed 499 INDEPENDENT STUDY 1-3
 Individual research is conducted under the supervision
 of a faculty member.
 Prerequisite: Approval of Department Chairman.

PHYSICAL EDUCATION

Joseph M. Pease, Chairman

Professor Joseph M. Pease; Associate professors Louis C. Cullen, Adolph M. Kuss; Assistant Professors Marvin L. Giersch, Lawrence D. Overcast; Instructors Clinton R. Ewald, John McNitt, Carol Meyer, Janice R. Wilson.

The objectives of the Department of Physical Education are:

To provide for the preparation of skilled teachers of Physical Education as well as qualified persons in the allied areas of recreation and coaching;

To provide a meaningful program in individual and dual sports stressing the carry-over value of these activities for all students;

To provide extra curricular experiences for all students in health, physical education, and recreation;

To provide professional leadership for the recreational and athletic activities of the students.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN
PHYSICAL EDUCATION

General Studies			41
<i>Specific Departmental Requirements</i>			
PE 170 Introduction to Physical Education	2		
PE 190 Foundations of Physical Education I	3		
PE 191 Foundations of Physical Education II	3		
PE 200 Foundations of Physical Education III	2		
PE 243 Health and Safety Education	3		
PE 244 Kinesiology	3		
PE 254 Adaptive Physical Education	2		
PE 360 Physiology of Exercise (prerequisite PE 260 & PE 262)	3		
PE 370 Physical Education in Elementary School	3		
PE 496 Seminar in Current Issues, Trends, Problems in Physical Education	2		
			26
<i>Other Departmental Requirements</i>			
6 hours to be selected from the courses listed below			
PE 164 Advanced First Aid	1		
PE 224 Prevention & Care of Athletic Injuries	2		
PE 300 Theory & Teaching of Folk & Social Dance	3		
PE 315 Rules & Mechanics of Officiating	2		
PE 350 Test & Measurements in Physical Education	3		
PE 375 Psychology of Coaching & the Conduct of Competitive Sports	3		
PE 480 Organization & Administration	3		
PE 499 Independent Study	1-3		
	6		32
<i>Auxiliary Requirements from other Departments</i>			
Biol 121 Human Anatomy & Physiology	3		3
<i>Electives</i>			52
TOTAL REQUIRED FOR GRADUATION			128

COURSE OFFERINGS

PE 101,	PHYSICAL ACTIVITY	(0-2)	1
102,	Seasonal physical activities during each trimester for		
103	men or for women.		

- PE 124 **FIRST AID** (1-0) 1
 Designed to provide the standard course of the American Red Cross First Aid Training.
- PE 164 **ADVANCED FIRST AID** (1-0) 1
 The advanced course is intended to meet the needs of special-interest groups who have opportunity to give first aid care frequently in the course of their daily routine.
- PE 170 **INTRODUCTION TO HEALTH,
 PHYSICAL EDUCATION & RECREATION** (2-0) 2
 Orientation to the field of physical education as a professional career. The nature and scope of physical education, history, aims, objectives, and values; qualifications and professional preparation; opportunities for service; allied fields and professional associations.
- PE 190 **FOUNDATION OF PHYSICAL
 EDUCATION I** (0-6) 3
 Designed to acquaint the student with the philosophical background of Physical Education, and to develop skills and understandings in social and square dance, tumbling, gymnastics, golf, tennis, archery, and other activities commonly found in the public school program. Students will be required to meet minimum levels of proficiency in the activities covered before enrolling in advanced professional courses.
- PE 191 **FOUNDATION OF PHYSICAL
 EDUCATION II** (0-6) 3
 Continuation of 190.
- PE 200 **FOUNDATION OF PHYSICAL
 EDUCATION III** (0-4) 2
 Designed to acquaint the student with the philosophical background of Physical Education, and to develop skills and understandings in soccer, field hockey, softball, volleyball, track & field, basketball, and other activities commonly found in the public school program. Students will be required to meet minimum levels of proficiency in the activities covered before enrolling in advanced professional courses.
- PE 224 **PREVENTION & CARE OF ATHLETIC
 INJURIES** (2-0) 2
 Intensive course in care and prevention of athletic injuries. Signs and symptoms, treatment, and adapted activities will be given for the minor injuries.

- PE 243 **HEALTH & SAFETY EDUCATION** (3-0) 3
 Modern health problems, aspects of disease, mental health, drugs, nutrition, school health, safety and accident prevention, curriculum development, and legal aspects of school health and safety education.
- PE 244 **KINESIOLOGY** (2-3) 3
 A study of the principles of mechanics and anatomy in relation to human movement.
Prerequisite: Biol 121, Human Anatomy & Physiology.
- PE 254 **ADAPTIVE PHYSICAL EDUCATION** (2-0) 2
 Analysis and methods of correction of individual postural, physical, and mechanical deviations; and adaptations of physical education activities for the physically handicapped.
Prerequisite: Biol 121 Human Anatomy & Physiology.
- PE 300 **THEORY AND TEACHING OF FOLK AND SOCIAL DANCE** (3-0) 3
 Course deals with fundamental rhythms, basic structure, and the teaching of folk and social dances. Material presented is for both elementary and secondary school use.
- PE 315 **RULES AND MECHANICS OF OFFICIATING** (2-0) 2
 Designed to provide individuals with the skills, knowledge, and techniques necessary to officiate competitive sports.
- PE 350 **TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION** (3-0) 3
 Techniques to determine abilities, needs, placement, and evaluation in the physical education program.
- PE 360 **PHYSIOLOGY OF EXERCISE** (3-0) 3
 A study of the physiological components of human movement as they relate to motor performance and the effects of exercise.
Prerequisite: Biol 121, Human Anatomy & Physiology.
- PE 370 **PHYSICAL EDUCATION IN ELEMENTARY SCHOOL** (3-0) 3
 The physical and emotional growth and development of elementary school children in relation to physical activities. Organization and administration of the elementary school physical education program plus methods of teaching and evaluation of students.

- PE 375 **PSYCHOLOGY OF COACHING AND THE CONDUCT OF COMPETITIVE SPORTS** (3-0) 3
Examination of the basic sociological and psychological concepts manifested in coaching as well as the administrative problems confronted by the coach. The techniques, strategy, and principles of selected inter-scholastic sports.
- PE 480 **ORGANIZATION AND ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION, RECREATION** (3-0) 3
Program building including criteria for the selection of activities and progression, and other factors affecting course of study construction such as facilities, equipment, budget, laws, policies, and professional responsibilities.
- PE 496 **SEMINAR IN CURRENT ISSUES, TRENDS & PROBLEMS** (2-0) 2
Designed to provide opportunities for analysis, direct discussion, and observation of problems, methods, and techniques in physical education.
- PE 499 **INDEPENDENT STUDY** 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman.

PSYCHOLOGY

John F. Hale, Chairman

Professor Willard O. Bowman; Associate Professors John F. Hale, Frank D. Tikalsky, Edwin W. Wallace; Assistant Professors John Murphy, Robert M. Wageman; Instructor Nicholas J. Heidy.

Psychology is the study of behavior. The basic problems of the field of psychology are describing, understanding, predicting, and controlling behavior. The curriculum in psychology attempts to expose the student to the approaches taken to these basic problems. He is presented with current research findings and theoretical positions regarding motivation, perception, personality, adjustment, learning, and thinking. He is trained in research procedures, and in the application of psychological principles to the solution of problems of personal and social relevance.

Course offerings are designed to serve three purposes: (1) to give students an insight into human behavior and thus prepare them to live a more productive and enjoyable life; (2) to meet needs of students planning to enter vocations such as teaching, business,

law, or nursing where a psychological understanding is required or desirable; and (3) to prepare students for graduate study in psychology or allied fields such as social work, counseling, or medicine.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN PSYCHOLOGY

General Studies		41
<i>Specific Departmental Requirements</i>		
Psych 157 General Psychology		3
Psych 158 General Psychology		4
Psych 219 Experimental Psychology		4
Psych 376 Systems and Theories in Psychology		3
Psych 496 Seminar or Psych 499 Independent Study		2
		16
<i>Other Departmental Requirements</i>		
Nine Additional Hours of 300 Courses		
Psych 365 Psychology of Learning		4
Psych 368 Culture and Personality		3
Psych 472 Psychology of Personality		3
Psych 481 History of Psychology		3
		9
Six additional Hours of Psychology Electives	6	31
<i>Electives</i>		56
TOTAL REQUIRED FOR GRADUATION		128

COURSE OFFERINGS

- Psych 157 **GENERAL PSYCHOLOGY** (3-0) 3
An introduction to the scientific study of behavior, the basic learning process, motivation and an introduction to social behavior.
- Psych 158 **GENERAL PSYCHOLOGY** (3-2) 4
An extension of basic principles to the area of complex human behavior. An attempt is made to integrate these principles with other approaches such as that of Freud. Includes basic experimentation in both lectures and laboratory.
Prerequisite: Psychology 157.
- Psych 218 **PSYCHOLOGICAL FOUNDATIONS OF EDUCATION** (3-0) 3
An introduction to the psychological principles relevant to education.
Prerequisite: Psychology 157.

- Psych 219 FOUNDATIONS OF EXPERIMENTAL PSYCHOLOGY (3-2) 4
Introduction to the basic assumptions, concepts and methodology of experimentation in psychology. Includes a study of general scientific concepts, definition of terms, measurement, techniques of observation and experimental design. Laboratory designed to provide skill in implementing simple experiments in various psychological fields.
Prerequisite: Psychology 158.
- Psych 225 OPERANT PRINCIPLES OF BEHAVIOR (3-2) 4
An introduction to the experimental analysis of human and animal behavior. The student will study basic operant terminology, operant conditioning methodology, principles of behavior and appropriate research material.
Prerequisite: Psychology 219.
- Psych 228 INDUSTRIAL PSYCHOLOGY (3-0) 3
An introduction to the application of Psychology to the industrial environment, including personnel recruitment and selection, job analysis, supervisory practices, training, systems design, decision making, and organizational theory.
- Psych 254 DEVELOPMENTAL PSYCHOLOGY (3-0) 3
Principles of development in childhood and adolescence.
Prerequisite: Psychology 158 or Psychology 218 or consent of instructor.
- Psych 327 PHYSIOLOGICAL PSYCHOLOGY (3-2) 4
Study of basic neuroanatomy, neurophysiology, and other physiological variables in the prediction and understanding of behavior. Attention will be paid to contemporary and classical research.
Prerequisite: Psychology 219 or consent of instructor.
- Psych 365 PSYCHOLOGY OF LEARNING (3-2) 4
The conditions of learning in animals and men as found in the experimental literature.
Prerequisite: Psychology 158 or Psychology 218 or consent of instructor.
- Psych 368 CULTURE AND PERSONALITY (3-0) 3
(Same as Anthropology 368)
A study of the cultural determinants of perception and behavior.
Prerequisite: Psychology 158 or consent of instructor.

- Psych 376 SYSTEMS AND THEORIES IN PSYCHOLOGY (3-0) 3
Survey of psychological systems in the modern era including behaviorism, Gestalt psychology, psychoanalysis, phenomenology, neo-behaviorism in relation to other selected disciplines.
Prerequisite: Psychology 158 or consent of instructor.
- Psych 387 ABNORMAL PSYCHOLOGY (3-0) 3
A review of the various models employed in the understanding, prediction and change of disorganized behavior.
Prerequisite: Psychology 158 or consent of instructor.
- Psych 472 PSYCHOLOGY OF PERSONALITY (3-0) 3
The psychological and physiological nature of personality. Individual differences, the development of personality.
Prerequisite: Psychology 158 or consent of instructor.
- Psych 481 HISTORY OF PSYCHOLOGY (3-0) 3
A study of the philosophical and scientific antecedents of modern psychology.
Prerequisite: Psych 158, Phil 141, or consent of instructor.
- Psych 496 SEMINAR (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Psych 499 INDEPENDENT STUDY 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman.

CENTER OF SOUTHWEST STUDIES

Robert W. Delaney, Director

MAJOR IN SOUTHWEST STUDIES

with concentrations in

ANTHROPOLOGY

HISTORY

SPANISH

SOUTHWEST STUDIES

Professors Robert W. Delaney (Chairman), John C. Ives;
Assistant Professor Manuel Rodriguez.

The major in Southwest Studies is an area major made up of courses in history, anthropology, and Spanish, as the central core of the major, plus certain auxiliary courses. All three of these are included in the major to some extent, but there are three separate patterns listed, and the student is to choose one of these for special emphasis. To a considerable extent programs will be tailored to each individual major. A committee of three faculty members, one each from history, anthropology, and Spanish will supervise and advise each major to suit his program to his needs. This major would provide that a student be able to enter a graduate school in the field of his major emphasis, and it is expected that careers in state and local governments would be open to majors in Southwest Studies.

SECONDARY TEACHERS: Majors who intend to teach in the secondary schools in the area of their emphasis will be expected to apply for candidacy in the teacher education program and acquire the necessary credits for certification.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES — HISTORY EMPHASIS

General Studies 41

History Requirements

Hist 280 Survey of American History I	3
Hist 280 Survey of American History II	3
Hist 270 Survey of Latin American History (Colonial)	3
Hist 370 History of Mexico	3
Hist 480 History of the Southwest	3
Hist 480 Transmississippi West or	
Hist 480 20th Century U.S.	3
	18

(Hist 120, 121 History of Indians of the Southwest, may be substituted for one or two of the following courses: Hist 370 History of Mexico, Hist 480 Transmississippi West, Hist 480 20th Century U.S.)

Language Requirement

Competence in Spanish equal to 12 hrs. above Elementary Spanish I & II	9
FL 495 Translation of Historical Documents	3
	12

Anthropology Requirements

At least two courses dealing with anthropology of the Southwest as approved by the Committee 6

Literature and Sociology Requirements

Two of the following required:

Engl 280 Literature of the Southwest 3

Engl 276 Folklore of the Southwest 3

Soc 279 The Hispano in the Southwest 3

6

Science Requirements

At least two courses selected from the biological and physical sciences which have to do with the Southwest 6

Research Requirements

SW 301 Problems in Southwest Studies 3

SW 302 Problems in Southwest Studies 3

6

54

Electives 33

TOTAL REQUIRED FOR GRADUATION 128

BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES— ANTHROPOLOGY EMPHASIS

General Studies 41

Anthropology Requirements

Anth 151 Introduction to Anthropology 3

Anth 231 Archaeology of the Southwest, Part I: The San Juan Pueblos 3

Anth 231L Archaeology of the Southwest Lab: Part I 1

Anth 331 Archaeology of the Southwest Part II: Hohokam and Mogollon Cultures 3

Anth 331L Archaeology of Southwest Part II: Lab 1

Anth 259 Field Training in Archaeology 8

Anth 321 Topics in Ethnography: Indians of the Southwest 3

22

History Requirements

At least two courses dealing with Southwestern history to be approved by the Committee, at least one of which must be History 480. 6

Language, Literature, Social Science, Science and Research requirements the same as in History emphasis 30 58

Electives 29

TOTAL REQUIRED FOR GRADUATION 128

BACHELOR OF ARTS DEGREE WITH A
MAJOR IN SOUTHWEST STUDIES—
SPANISH EMPHASIS

General Studies		41
<i>Spanish Requirements</i>		
Foreign Language competence equivalent to FL 216 Intermediate Spanish II	14	
FL 495 Translation of Historical Documents	3	
Two courses in advanced Spanish with Mexican Literature and Hispanic American Civilization (in Spanish and English) being recommended	6	
	23	
<i>History Requirements</i>		
Hist 270 Survey of Latin American	3	
Hist 370 History of Mexico	3	
Hist 480 History of the Southwest (Hist 120 or 121 History of Indians of the Southwest may be substituted for Hist 370 History of Mexico)	3	
Anthropology, Literature, Social Science, Science, and Research requirements the same as in the History emphasis.	24	56
<i>Electives</i>		31
TOTAL REQUIRED FOR GRADUATION		128

COURSE OFFERINGS

SW 120, 121	SOCIAL AND POLITICAL HISTORY OF INDIANS OF THE SOUTHWEST These courses are the same as Hist 120, 121. See History.	(3-0)	3
SW 301	PROBLEMS IN SOUTHWEST STUDIES I A senior-level individual research project in any disci- pline based on the needs and interests of the individual. <i>Prerequisite:</i> Approval of Committee.	(3-0)	3
SW 302	PROBLEMS IN SOUTHWEST STUDIES II Same as above.	(3-0)	3
SW 365	HISPANIC CIVILIZATION Contributions of Spain and Portugal to the building of Western Civilization. Topics include: Great Age of Exploration; Golden Age of Spanish-Portuguese Civi- lization; masterworks of literature; and History of Ideas.	(3-0)	3
SW 375	HISPANIC AMERICAN CIVILIZATION The literature, culture, thought, art, anthropology, his- tory, geography, and contemporary position of His- panic - American Civilization.	(3-0)	3

For other course descriptions, see listings under the appropriate disciplines.

THE REGISTER

1970 - 71

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EMERITI

HERSHBERGER, INEZ, INSTRUCTOR OF LANGUAGES
EMERITUS

A.B., Kalamazoo College

HOWARD, LYLE, ASSISTANT PROFESSOR OF LANGUAGES
EMERITUS

B.A., Kansas State Teachers College;
M.A., Western State College of Colorado.

KELLY, FLOYD, ASST. PROFESSOR OF BUSINESS EMERITUS
A.B., Colorado State College; M.A., Colorado State College;
Advanced Graduate Work, Columbia University and Colorado
State College.

REED, JOHN F., PRESIDENT EMERITUS

B.A., Dartmouth College; M.A., Duke University; Ph.D., Duke
University.

TATE, NORVELL G., PROFESSOR OF SECONDARY EDUCATION
EMERITUS

B.A., New Mexico Highlands University; M.A., University of
New Mexico; Ed.D., University of Southern California.

ACADEMIC FACULTY

1970 - 71

(Date after title indicates when employment began
at Fort Lewis College)

- ADMIRE, ALICE K. Asst. Professor of English (1956)
B.S., Colorado State University, 1939
M.A., Western State College, 1962
- ANDERSON, RICHARD DEE Asst. Professor of Mathematics (1965)
B.S., Baker University, 1958
MNS, Arizona State University, 1963
Further graduate study, University of
Illinois
- ASH, JAMES K. Instructor of History (1970)
B.A., University of California (Berkeley)
1967
M.A., Harvard University, 1970
- ATENCIO, LEONARD D. Asst. Professor of Economics and Busi-
ness Administration, (1968)
B.A., Fort Lewis College, 1964
Ph.D., Kansas State University, 1969

- BAARS, DONALD LEE Associate Professor of Geology (1968)
B.S., University of Utah, 1952
Ph.D., University of Colorado, 1965
- BAKER, JAMES R. Asst. Professor of Engineering (1966)
(on leave) B.S.C.E., University of New Mexico, 1965
M.S., University of New Mexico, 1966
- BASS, DAVID J. Asst. Professor of Political Science (1970)
B.Sc., Ohio State University, 1943
M.A., University of Chicago, 1947
Further graduate study, University of
Chicago
- BENSON, STEPHEN E. Asst. Professor of Philosophy (1968)
A.B., University of Colorado, 1958
M.A., University of Colorado, 1962
Ph.D., University of Colorado, 1970
- BERG, DAVID Assoc. Professor of Speech (1953)
B.A., Colorado College, 1951
M.S., University of Utah, 1952
Further graduate work, University of
Oregon and Stanford University
- BERNDT, REXER President (1969)
B.S., University of Denver, 1949
M.B.A., University of Denver, 1950
Ph.D., University of Colorado, 1955
- BIRD, GEORGE L. Asst. Professor of English (1969)
B.A., San Diego State College, 1961
M.A., University of Utah, 1963
Ph.D., University of Utah, 1969
- BOUMAN, MICHAEL H. Instructor of Music (1970)
B.A., Pennsylvania State University, 1967
M.F.A., Pennsylvania State University,
1969
- BOWMAN, FRANK O., JR. Professor of Geology (1959)
A.B., Williams College, 1941
B.S., University of North Carolina, 1942
Ph.D., University of North Carolina, 1954
- BOWMAN, WILLARD O. Professor of Psychology (1958)
B.A., Berea College, 1931
B.Eng., I.T.I., University of Chicago, 1933
M.A., University of Colorado, 1958
Ed.D., University of Colorado, 1965
- BRIGGS, ULYSS LEE Instructor; Director, Intercultural
Program (1968)
B.A., University of Denver, 1960
Master of Teaching, Southeastern State
College, 1967

- BRINTNALL, ARTHUR K.** Professor of Business Administration;
 Director, School of Business Administration (1970)
 A.B., Denison University, 1935
 Graduate Study, The Johns Hopkins University, 1935-37
 Ph.D., University of California at L.A., 1939
- BROCHU, EDITH W.** Asst. Professor of Education (1970)
 B.S., University of Kansas, 1951
 M.A., University of Northern Colorado, 1967
 Ed.D., University of Northern Colorado, 1970
- BUSH, DIXON** Director of Cooperative Education;
 Assoc. Professor of Sociology (1970)
 B.S.S., College of the City of New York, 1948
 M.A., School of Education, New York University, 1949
 Ed.D., School of Education, New York University, 1951
- BUSHNELL, DONALD D.** Assoc. Professor of Mathematics (1960)
 B.S., Kearney State College, 1951
 M.A., University of Northern Colorado, 1957
 Ed.D., University of Northern Colorado, 1969
- CAMPBELL, MYRTIS T.** Instructor in English, Intercultural Program (1969)
 A.B., Boston University, 1952
 M.A., University of California at L.A., 1970
- CAPP, CLIFFORD B.** Instructor of Mathematics, Intercultural Program (1970)
 B.S., Colorado State University, 1962
 M.S., Colorado State University, 1969
- CORDILL, MARY KAY** Instructor of Sociology (1970)
 B.A., University of Kansas, 1965
 M.A., University of Kansas, 1969
 Further graduate work, University of Kansas
- COX, BILLIE DON** Asst. Professor of Accounting and Business Administration (1968)
 B.B.A., Baylor University, 1961
 M.B.A., Baylor University, 1968
 C.P.A., Colorado, September, 1965

- CROWNOVER, JOSEPH C. Instructor of Agriculture (1970)
B.S., Cornell University, 1963
Further graduate work, Colorado State University
- CULLEN, LOUIS C. Assoc. Professor of Physical Education (1963)
Football Coach
B.S., University of New Mexico, 1948
M.A., University of New Mexico, 1952
- DECKER, JAMES C. Asst. Professor of Political Science (1966)
B.A., University of Illinois, 1953
M.A., University of Colorado, 1963
Ph.D., University of Colorado, 1966
- DELANEY, MARIA Assoc. Professor of Foreign Languages (1958)
Akademischer Ubersetzer, University of Heidelberg, 1955
Diplom-Dolmetscher, University of Heidelberg, 1956
- DELANEY, ROBERT W. Professor of History and Southwest Studies; Director, Center of Southwest Studies (1957)
B.S., Northeast Missouri State College, 1948
A.B., Northeast Missouri State College, 1948
M.A., University of New Mexico, 1950
Ph.D., University of New Mexico, 1955
- DESIMPLAIRE, HADLEY, LUCIENNE Asst. Professor of French (1967)
Diploma, Brussels Conservatory, 1945
B.M., University of Wyoming, 1964
M.A., University of Wyoming, 1965
M.A., University of Colorado, 1967
- DEVER, JOHN E., JR. Asst. Professor of Botany (1967)
B.S., Rutgers University, 1960
M.S., Oregon State University, 1962
Ph.D., Michigan State University, 1967
- DILLAWAY, MANSON P. Asst. Professor of Accounting (1969)
B.S., University of California, Berkeley, 1964
M.B.A., University of California at L.A., 1965
C.P.A., California, December 1967

- DIN, GILBERT C. Assoc. Professor of History (1965)
A.A., Imperial Valley College, 1951
A.B., University of California, Berkeley,
1957
M.A., University of California, Berkeley,
1958
Doctor en Filosofia y Letras, University
of Madrid, 1960
- DODGE, MARY ANN Instructor of Business Education (1970)
B.A., Western State College of Colorado,
1955
M.A., University of Northern Colorado,
1963
- DOWNEY, RALPH A. Asst. Professor of Music (1969)
B.S., Lebanon Valley College, 1949
M.M., University of Montana, 1965
Further graduate study. University of
Montana
- DUBOIS, EDWARD N. Assoc. Professor of Business & Economics
(1968)
B.A., University of Wyoming, 1946
M.B.A., University of Pennsylvania, 1948
Further graduate study, University of
Pennsylvania
- ECKENRODE, THOMAS R. Asst. Professor of History (1969)
A.B., St. Vincent College, 1958
M.A., University of Colorado, 1964
Ph.D., St. Louis University, 1970
- ELLINGSON, JACK A. Asst. Professor of Geology (1970)
B.S., University of Washington, 1958
M.S., University of Washington, 1959
Ph.D., Washington State University, 1968
- ENGLEHART, STANTON Assoc. Professor of Art (1961)
B.F.A., University of Colorado, 1960
M.F.A., University of Colorado, 1968
- ENGMAN, BILL D. Assoc. Professor of Education (1970)
B.A., Eastern New Mexico University,
1957
M.N.S., Eastern New Mexico University,
1963
Ed.D., University of New Mexico, 1966
- ERICKSON, JAMES G. Assoc. Professor of Biology (1964)
B.A., Doane College, 1950
M.S., Iowa State University, 1951
Ph.D., University of Wyoming, 1964

- EWALD, CLINTON R. Instructor in Physical Education (1969)
B.A., Macalester College, 1966
M.A., Wake Forest University, 1968
- FERRARA, THOMAS C. Instructor of Engineering (1970)
B.S., University of California, Davis, 1969
M.S., University of California, Davis, 1970
- FITZGERALD, JAMES G. Instructor of Spanish (1970)
B.A., University of Notre Dame, 1961
M.A., University of Wyoming, 1966
- FOX, MAYNARD Professor of Literature (1964)
A.B., Fort Hays Kansas State College,
1937
M.S., Fort Hays Kansas State College,
1939
Ph.D., University of Colorado, 1963
- FREIENMUTH, EDWARD S. Asst. Professor of Economics and Business (1969)
J.D., University of Colorado, 1949
C.P.A., Colorado, October, 1964
- FRIEDLAND, SHERMAN Asst. Professor of Music (1969)
B.M., New England Conservatory of
Music, 1960
Diploma Cum Laudes, Conservatoire
Americain, 1960
Master of Music, University of
Massachusetts, 1967
- GAGE, JIMMY A. Asst. Professor of Education (1969)
B.A., North Texas State University, 1957
M.Ed., North Texas State University, 1962
Ph.D., North Texas State University, 1969
- GIBBONS, DANIEL E. Asst. Professor of Physics (1968)
B.S., University of Houston, 1964
M.S., University of Houston, 1967
Ph.D., University of Houston, 1969
- GIERSCH, MARVIN L. Asst. Professor of Physical Education
(1970)
B.S., Ft. Hays Kansas State College, 1959
M.S., Baylor University, 1960
Ed.D., University of Northern Colorado,
1970

- GOBBLE, RICHARD L. Assoc. Professor; Director of Library (1967)
B.S.B.A., University of Denver, 1948
M.A., University of Denver, 1950
Further graduate work, University of Denver and University of Northern Colorado
- GOODWIN, LEROY W. Assoc. Professor of Government (1957)
B.A., University of Colorado, 1947
M.A., University of Colorado, 1955
Ph.D., Columbia University, 1970
- GUTHRIE, GEORGE B. Asst. Professor of Chemistry (1970)
B.A., Reed College, 1940
Ph.D., California Institute of Technology, 1949
- HALE, JOHN F. Assoc. Professor of Psychology (1970)
A.B., Brown University, 1957
M.A., Brown University, 1959
Ph.D., Carnegie-Mellon University, 1963
- HAMILTON, RODNEY D. Asst. Professor Chemistry (1969)
B.S., Marietta College, 1960
Ph.D., Indiana University, 1964
University of Heidelberg, 1964-65
- HARRISON, EDWARD MERLE Asst. Professor of Chemistry (1968)
B.S., Brigham Young University, 1955
M.S., Colorado State University, 1957
Ph.D., Colorado State University, 1960
- HEIDY, NICHOLAS J. Instructor in Psychology; Assoc. Dean (on leave) of students (1962)
A.B., Adams State College, 1962
M.A., Adams State College, 1964
Further graduate study, University of Northern Colorado
- HODGE, JUDY ANNE Instructor; Librarian (1970)
B.A., University of California (L.A.) 1967
M.L.S., University of Denver, 1969
- HOLDERNESS, AUBREY E. Asst. Professor of Business Education (on leave) (1965)
B.A., Adams State College, 1962
M.A., Adams State College, 1965
Further graduate study, University of Northern Colorado

- HULBERT, KATHARINE W. Asst. Professor of Anthropology (1969)
B.A., University of Colorado, 1949
M.A., University of Colorado, 1966
Ph.D., University of Colorado, 1970
- IVES, JOHN C. Professor of Anthropology (1966)
B.A., State University of Iowa, 1954
A.M., State University of Iowa, 1956
Ph.D., Harvard University, 1960
- JOHNS, MYRON W. Asst. Professor of Education (1970)
B.S., Kansas State College, 1960
M.S., Kansas State College, 1966
Ed.D., University of Wyoming, 1970
- JOHNSON, LARRY S. Asst. Professor of Mathematics (1970)
B.A., Western State College of Colorado,
1964
M.S., University of Wyoming, 1966
Ph.D., University of Wyoming, 1969
- JONES, ARCHIE H. Director, School of Arts and Sciences;
Professor of History (1970)
B.A., Carroll College, 1947
M.A., The University of Chicago, 1949
Ph.D., The University of Chicago, 1954
- JONES, ROLAND C. Asst. Professor of English (1967)
B.A., University of Michigan, 1956
M.A., Northern Arizona University, 1963
Diploma for Advanced Graduate Studies,
Michigan State University, 1970
- KAUFMAN, JERRY M. Assoc. Professor of Business (1963)
(on leave) B.S., Southwestern State College of
Oklahoma, 1959
M.S., Oklahoma State University, 1961
C.P.A., 1962
Further graduate work, Oklahoma State
University
- KEATOR, RICHARD G. Asst. Professor of Biology (1967)
A.B., University of Calif., Santa Barbara,
1961
Ph.D., University of California, Berkeley,
1968
- KORNS, RICHARD F. Asst. Professor of English and Journalism
(1966)
A.B., University of Pennsylvania, 1930
Bach. of Journalism, University of
Missouri, 1931
M.A., University of Minnesota, 1955

- KUSS, ADOLPH M., JR. Assoc. Professor of Physical Education (1964)
Ski Coach
B.A., Western State College of Colorado, 1952
M.A., Western State College of Colorado, 1964
- LIU, ESTHER T. C. Asst. Professor; Librarian (1963)
B.A., National Fu Tah University, 1944
M.A., University of Minnesota, 1953
M.A., University of Denver, 1954
- MALSTEAD, ROGER H. Instructor of English, Intercultural Program (1970)
B.A., Haigazian College, Beirut, 1968
M.A., University of California (L.A.), 1970
- MAROLD, JUDY HARVEY Instructor of Speech and Theatre (1969)
B.S., Texas Woman's University, 1967
M.A., Texas Woman's University, 1968
- MARQUISS, ROBERT Asst. Professor of Range Management (1966)
B.S., University of Wyoming, 1956
M.S., University of Wyoming, 1957
Ph.D., University of Arizona, 1967
- MCNITT, JOHN B. Instructor of Physical Education (1970)
Football Coach
B.S., University of New Mexico, 1962
M.A., University of New Mexico, 1968
- MEYER, CAROL M. Instructor in Women's Physical Education (1969)
B.A., Carroll College, 1962
M.A., University of Northern Colorado, 1968
- MILLS, LEON Instructor of Agriculture, MDTA Program (1970)
B.S., Colorado State University, 1954
M.S., Colorado State University, 1956
- MOORE, HOWARD D. Asst. Professor of Agronomy (1968)
B.S., Colorado State University, 1963
M.S., Montana State University, 1968
- MOTSCH, ROBERT L. Asst. Professor of Mathematics; Director, Computer Center (1969)
B.S., Montana State University, 1959
M.S. in Systems Analysis, West Coast University, 1967

- MURPHY, JOHN P. Asst. Professor of Psychology; Counselor (1970)
B.A., University of South Carolina, 1959
M.A., University of Kentucky, 1961
Ed.D., Indiana University, 1967
- NYIKOS, MICHAEL S. Assoc. Dean of Students; Asst. Professor of English and Journalism (1970)
B.A. Cum Laude, New Mexico Highlands University, 1958
M.A., The University of Michigan, 1960
Ph.D., The University of Michigan, 1970
- O'KEEFE, RALPH DALE Assoc. Professor of English (1965)
B.A., Loyola University, 1938
M.F.A. Yale University, 1947
- OVERCAST, LAWRENCE D. Instructor of Physical Education; Basketball Coach (1970)
B.S., West Texas State University, 1956
M.Ed., West Texas State University, 1967
- OWEN, HERBERT E. Professor of Biology (1955)
B.S., University of Tulsa, 1950
M.S., Oregon State College, 1953
Ph.D., Oregon State College, 1957
- PAYMELLA, HARVEY D. Instructor-Counselor, Ford Foundation Project (1970)
B.S., College of Emporia, Kansas, 1958
M.S., Kansas State Teachers College, 1964
- PEASE, JOSEPH M. Professor of Physical Education; Director of Athletics (1970)
B.A., Central Washington State College, 1947
M.A., Teachers College, Columbia University, 1950
Ed.D., Teachers College, Columbia University, 1951
- PERIMAN, KENNETH I. Assoc. Professor of English (1962)
B.A., University of Colorado, 1951
M.A., University of Colorado, 1953
- PETERSON, CARROLL V. Assoc. Professor of English (1968)
B.S., University of Minnesota, 1958
M.A., University of Iowa, 1959
Ph.D., University of Iowa, 1963
- PHILLIPS, W. WENDELL Assoc. Professor of English (1961)
B.A., Iowa State Teacher's College, 1939
M.A., Western State College of Colorado, 1958
Ed.D., University of New Mexico, 1968

- PIXLER, PAUL W. Dean of Faculty; Professor of Philosophy
(1967)
A.B., Kletzing College, 1944
B.D., Asbury Theological Seminary, 1947
S.T.M., Harvard University, 1949
Ph.D., Boston University, 1958
- REBER, MICK Instructor in Art (1968)
B.F.A., Brigham Young University, 1966
M.F.A., Brigham Young University, 1968
- RECHARD, OTTIS H. Visiting Professor of Mathematics (1967)
A.B., Gettysburg College, 1916
M.A., Gettysburg College, 1918
Ph.D., University of Wisconsin, 1930
- REEDER, RAY M. Assoc. Professor of History (1966)
B.S., Utah State University, 1939
M.S., Utah State University, 1957
Ph.D., Brigham Young University, 1966
- REID, CHARLES H., JR. Asst. Professor of Education; Director of
Admissions and Records (1950)
A.B., Montclair State College, 1948
M.Ed., University of Colorado, 1949
Further graduate study, University of
Northern Colorado
- ROBERTS, MARDA-RUTH Instructor in Spanish (1967)
B.A., Valparaiso University, 1964
M.A., University of Arizona, 1967
- RODRIGUEZ, MANUEL A. Asst. Professor of Spanish (1965)
B.A., Union College, Schenectady, N.Y.,
1947
M.A., University of Texas at El Paso, 1964
Ph.D., University of Madrid, 1970
- ROHDE, OTTO J. Asst. Professor of Engineering (1964)
B.S., U.S. Military Academy, 1935
M.S. in C.E., Mass. Institute of Tech-
nology, 1937
- ROSENBERG, HARRY C. Asst. Professor of Mathematics (1964)
B.A., University of Northern Colorado,
1956
M.A., University of Northern Colorado,
1957
M.A., University of Illinois, 1964
Further graduate work, N.M. State
University

- ROSS, ARLAN K. Instructor in Chemistry (1969)
B.S., Winona (Minn.) State College, 1960
M.S., Mankato State College, 1969
- SCHAEFER, RICHARD K. Asst. Professor of Economics (1969)
B.S., University of Colorado, 1960
Ph.D., Colorado State University, 1969
- SCHLER, DANIEL J. Assoc. Professor of Sociology (1970)
B.S., University of Missouri, 1951
B.D., Eden Seminary, 1955
M.S., University of Missouri, 1958
Ph.D., University of Missouri, 1966
- SHIPPS, HARROLD S., JR. Assoc. Professor; Librarian (1970)
B.S., (Ed.) Bridgewater State College,
1949
M.Ed., Bridgewater State College, 1960
M.S.P.A., George Washington University,
1964
M.A., University of Denver, 1967
Ph.D., University of Denver, 1969
- SMAGALA, SANDRA Instructor; Librarian (1969)
B.A., Western State College, 1964
M.A., University of Denver, 1967
- SMITH, DUANE A. Assoc. Professor of History (1964)
B.A., University of Colorado, 1959
M.A., University of Colorado, 1961
Ph.D., University of Colorado, 1964
- SOMERS, LEE P. III Instructor in Biology (1969)
B.S., Wake Forest University, 1967
M.A., University of Colorado, 1969
Further graduate work, University of
Colorado
- SPANGSBERG, DONALD Asst. Professor of Industrial Arts (1957)
B.A., Kearney State Teachers College,
1950
M.A., University of Northern Colorado,
1957
- SPENCER, ALBERT W. Assoc. Professor of Biology (1965)
B.S., Colorado State University, 1957
M.S., Colorado State University, 1961
Ph.D., Colorado State University, 1965
- STALEY, CHARLES K. Asst. Professor of Business Administra-
tion (1967)
B.S., Colorado State University, 1962
M.S., University of Northern Colorado,
1967

- STOCKER, HAROLD E. Asst. Professor of Mathematics (1967)
B.A., Fort Lewis College, 1965
M.A., University of Wyoming, 1967
Further graduate study, University of
Northern Colorado and Colorado State
University
- TAYLOR, RANDALL D. Professor of Physical Science; Assistant
Dean of Faculty (1953)
B.S., University of Nebraska, 1935
M.Ed., Adams State College, 1959
- TIKALSKY, FRANK D. Assoc. Professor of Psychology (1966)
A.B., Missouri Valley College, 1954
M.A., University of Missouri at K.C., 1959
Ed.D., University of Northern Colorado,
1966
- TOCHI, ALICE J. Instructor in Business Education (1968)
B.A., University of Northern Colorado,
1960
M.A., University of Northern Colorado,
1961
- TRIMBLE, CHARLES E. Instructor-Counselor, Ford Foundation
Project (1970)
B.F.A., University of South Dakota, 1957
- WAGEMAN, ROBERT M. Asst. Professor of Psychology (1969)
B.S., Arizona State University, 1961
M.A., Arizona State University, 1963
Ph.D., Arizona State University, 1968
- WALLACE, EDWIN W. Dean of Students; Assistant to the Presi-
dent; Assoc. Professor of Psychology
(1950)
B.S., University of New Mexico, 1949
Ed.M., Adams State College, 1960
- WATT, BRUCE A. Asst. Professor of Education (1969)
B.S. Sec. Ed., Montana State University,
1962
M.Ed., University of Texas, 1966
Further graduate study, University of
Texas
- WAYT, BUFORD Director, Project TRAIL (1967)
A.B., Western State College, 1943
M.A., Western State College, 1950

- WEAVER, PATRICIA E. Asst. Professor of Music (1969)
M.B., Baylor University, 1955
M.M., University of Illinois, 1958
- WELLS, C. GERALD Asst. Professor of Art (1970)
B.A., University of Mississippi, 1959
M.F.A., University of Mississippi, 1964
- WHALEN, DONALD F. Director, School of Education; Professor
of Education (1959)
B.S., Northern Arizona University, 1954
M.A., Northern Arizona University, 1955
H.Ed.D., Indiana University, 1962
- WILSON, JANICE R. Instructor in Women's Physical Education
(1968)
B.S., Slippery Rock State College, 1966
M.A., Kent State University, 1968

INDEX

Academic Information	26	Cooperative Education	28
Academic performance	33	Costs	16
Accounting	101	Counseling Services	19
Adding courses	33, 34	Courses of study	38
Administrative Staff	141	Credit through special examination	34
Admission	12	Dean's List	36
Adm. of Amer. Indian Students	14	Degrees	26
Adult education	29	Distribution requirements ..	32
Advanced Placement	14	Dropping courses	33, 34
Agriculture	41	Early Admission	14
Anthropology	42	Economics	115
Art	45	Education	124
Athletics	17	Elective Courses	33
Attendance	33	Elementary Education program	123
Auditing privileges	33	Engineering	58
Biological Science	48	English	61
Bookstore	24	Enrollment	7
Business Administration ..	106	Examinations	35
Business Education ..	111	Faculty	7
Center of Southwest Studies ..	10, 136	Faculty list	142
Changes in programs of study ..	33	Financial aid	16
Chemistry	54	Foreign Languages	66
Classification of students	34	Foreign students	14
College	7	Forestry	71
Computer Center	10	Former students	13

Foundation, Fort Lewis College	11	Organizations, Student	18
French	67	Pass-Fail electives	36
Freshman seminars	38	Philosophy	89
General Studies program ..	31	Philosophy of the college ..	8
Geography	97	Physical Education	128
Geology	72	Physical Plant	7
German	67	Physical Science	90
Grading	35	Physics	92
Graduation with honors ...	36	Placement	19
Graduation requirements ..	30	Political Science	94
Grants-in-aid	16	Programs of Study	26
Health Services	22	Psychology	132
History	75	Register	140
Housing	23	Registration	33
Humanities	78	Religious Affairs	17
I.D. Cards	24	Satisfactory academic progress	37
Independent Study	36	Scholarships	16
Industrial Arts	79	School of Arts and Sciences	40
Intercultural Program	27	School of Business Administration	100
Latin	68	School of Education	120
Library	9	Secondary Education program	121
Loans	16	Secretarial Science	113
Majors	32	Services to Students	17
Mail Service	24	Sociology	97
Mathematics	80	Southwest Studies	136
Military service, credit for	34	Spanish	68
Motor Vehicles	25	Special Project Month	9
Music	85		

Speech	61	Theatre	98
State Board of Agriculture	140	Transcripts	37
Student Government	18	Transfer students	12, 13
Study Load	37	Trimester academic calendar	9
Teacher Education program	121	Unclassified students	14



Fort Lewis College is internationally recognized for its skiing program. Former Olympic skiers include Mike Elliott, Pat Miller, Mike Devecka. Currently on the U.S. Ski Team are Mike Scott, Jim Miller, Matt Bimonte, Larry Martin, and Ed Schissler. The College, located near Purgatory Ski area the site of the National Championships, also offers ski instruction in its physical education program.

Fort Lewis is located on a mesa top overlooking Durango, in the heart of the scenic San Juan Basin in Southwestern Colorado. The college offers its students an academic atmosphere of quality education in a setting that abounds with historical and recreational attractions.

Within a short drive of the campus in Durango are Mesa Verde National Park, Monument Valley, Aztec Ruins, Narrow Gauge Train, and some of the finest skiing, fishing, big game hunting, and scenery in Colorado.

