

FORT LEWIS COLLEGE



THE EXPERIMENTAL COLLEGE OF THE ROCKY MOUNTAIN WEST

1970 - 71 CATALOG

RANGO, COLORADO

ACADEMIC CALENDAR 1970 -71

FALL 1970

August 14	Friday	Deadline for accepting applications
September 6,7	Sunday, Monday	Orientation
September 8, 9	Tuesday & Wednesday	Registration
September 10	Thursday	Classes begin
October 30	Friday	Mid-term grades due
November 25-29	Wednesday-Sunday	Thanksgiving Break
November 30	Monday	Classes resume
December 19	Saturday	Term ends

WINTER 1971

January 4	Monday	Registration
January 5	Tuesday	Classes begin
February 19	Friday	Mid-term grades due
February 20-23	Saturday-Tuesday	Mid-term Break
February 24	Wednesday	Classes resume
April 17	Saturday	Term ends

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

FORT LEWIS COLLEGE

DURANGO, COLORADO

*The Experimental College
of the Rocky Mountain West*

CATALOG FOR THE
1970-71 ACADEMIC YEAR

March, 1970

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	11
Fort Lewis College Foundation	14
Admissions	15
Costs and Financial Aids	19
Students Services	22
Student Organizations	23
Guidance and Placement	25
Student Conduct	26
Health Service	28
Housing	29
Academic Information	30
New General Studies Program	34
Academic Performance	37
Grading	38
Courses of Study	41
The Register	130
Index	144



THE RAIDER MARCHING BAND

Membership in the Raider Marching Band is open to all students. In the past the Band has been asked to perform at the Denver Bronco football games, as well as performing at all Fort Lewis College home football games, and in the annual Homecoming Parade through downtown Durango.



FORT LEWIS COLLEGE LIBRARY



Fort Lewis College Academic-Administration Building



Inside the Fort Lewis Library



RAIDER FOOTBALL.



A view from the Chapel



Hohzom Days

Approximately 10 per cent of the student enrollment at Fort Lewis College are Indians who represent 38 different tribes. Each year, the Indian students present Hohzom Days, a week of activities designed to acquaint other students with the Indian culture and customs. Shown above is a demonstration in the art of rug weaving.



INDIAN DANCERS

The Indian Dancers are a traditional part of Hohzoni Days with tribal dancers coming from many miles to participate in the annual Fort Lewis Pow Wow

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 most outstanding liberal arts 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 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 1969 the enrollment was over 1850 and will exceed 2,000 students by 1971.

PHYSICAL PLANT

The College, originally located 16 miles southwest of Durango, moved to its present location in 1956; none of the buildings is 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 scheduled for ground-breaking in the spring of 1970. 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 over 87 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 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 trimester 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 leaves the campus with a basic knowledge and appreciation of the humanities and the social sciences.

THE TRIMESTER ACADEMIC CALENDAR

The academic year is divided into three 15-week trimesters, each providing approximately 75 days in the classroom. Class periods at the College are extended beyond the normal 50 minutes. 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 second or winter trimester begins early in January and ends in late April. The spring trimester begins in May and ends in mid-August. Shorter concentrated sessions may be superimposed on a regular trimester for the benefit of special groups.

Students are encouraged to attend Fort Lewis College for the full year by enrolling for three trimesters in succession. Those who do so from the beginning of the freshman year onward can graduate in about two and two-thirds calendar years.

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 70,000 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 is in the final stages of developing a modern computing facility centered around a medium-sized, third-generation computer. This facility will provide all students of the College with an important tool for creative thinking, one to be utilized in their course studies as well as in their independent research.

The integration of the computer into already established courses, and the introduction of new courses designed to give the student significant capabilities in computer utilization, will begin in the 1970-71 school year. The goal of this effort will be to enable graduates of Fort Lewis College, irrespective of their majors, to enter meaningfully into the mainstream of our modern world.

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 Lewis 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.

The meeting of minimal admission requirements does not **assure** admission. Applicants must be of acceptable moral and ethical character.

Students under 21 are required to live in residence halls subject to availability of space except for those whose homes are within commuting distance of the campus.

ADMISSION OF AMERICAN INDIAN STUDENTS

Fort Lewis College, by statute, is required to admit 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.)

HOW TO APPLY FOR ADMISSION FRESHMAN PROCEDURE

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 \$5 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.)

See his high school counselor to register to take the American College Test (ACT). Registration for the test should be completed a month prior to the test date. ACT test results are normally used in

advising a student and in scheduling work loads and may be used as a factor in admissibility.

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 \$5 application fee.

Request that an official transcript be forwarded to Fort Lewis College to the attention of 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 each 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.

ADDITIONAL ADMISSION INFORMATION

ADMISSION OF FIRST-TIME COLLEGE STUDENTS

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.

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

The American College Test: All freshmen applicants are expected to have the results of the American College Test sent to Fort Lewis College. Complete information regarding this 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.

ADMISSION OF TRANSFER STUDENTS

Applicants with a cumulative scholastic average of "C" and honorable dismissal from other colleges and universities may be admitted at the beginning of any trimester. College course credits that fulfill the requirements for a degree program at Fort Lewis College will ordinarily be acceptable for transfer.

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 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 baccalaureate 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 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 schools. Satisfactory scores on an examination administered and graded by the College Board are forwarded to Fort Lewis and may serve as a basis for 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 \$1380, which includes tuition, health fees (including 12-month health and accident insurance coverage), student fees, room, seven-day board, books, and supplies. Out-of-state students will pay an additional amount of approximately \$455.

Personal expenses, such as clothing, travel, and social activities, 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 of any time without prior notice.

PAYMENT

All student charges are due and payable on registration day; however, the student may elect to pay his total charges before registration day to avoid the cashier's station on that day. Current rules and regulations prohibit a delayed payment after registration day.

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. Every effort is made by the Financial Aids Committee to provide the best type of aid or combination of aid to assist deserving students to complete a college education. Academic record and demonstrated need are factors considered by the committee in arriving at a decision.

SCHOLARSHIPS AND GRANTS-IN-AID

MERIT SCHOLARSHIPS which *wave tuition* are awarded to selected students who are outstanding in scholarship (at least in the upper third of their high school graduating class or in the college group with a "B" average or better) and who show leadership qualities. The recommendation of the school is necessary. Merit scholarships are renewable upon maintaining required grades and good standing.

EDUCATIONAL GRANTS which also *waive tuition* are awarded on the basis of demonstrated need and satisfactory scholarship. They are renewable upon maintaining adequate grades and good standing.

EDUCATIONAL OPPORTUNITY GRANTS of \$200 to \$1,000 per year are awarded on the basis of demonstrated need and satisfactory scholarship or creativity. They are renewable upon maintaining satisfactory grades and the availability of federal funds.

MUSIC GRANTS which *waive tuition* are awarded on the basis of demonstrated band instrument proficiency and satisfactory scholarship. They are renewable upon maintaining adequate grades, participation in the music program, and the recommendation of the Director of Music. Initial inquiries should be directed to the Director of Music, Fort Lewis College.

ATHLETIC GRANTS, which *waive tuition* and in some cases *required fees*, are awarded on the bases of demonstrated athletic ability and satisfactory grades. They are renewable upon achieving satisfactory grades, participation in the intercollegiate athletic program and the recommendation of the Director of Athletics. Initial inquiries should be directed to the Director of Athletics, Fort Lewis College.

SPECIAL GRANTS TO AMERICAN INDIAN STUDENTS, which *waive tuition*, are awarded on the basis of the student's providing written proof of Indian blood through tribal census number or roll number.

In addition to the above programs, Fort Lewis College has a number of sponsored grants and scholarships.

Sponsored Scholarships and Grants for 1969-70 include:

A.M. Camp Scholarship

BPOE no. 507, Durango . . . 3 scholarships

LaPlata County Cattlemen and Cowbellers

Mancos Educational Association

Hiebler Memorial Scholarship, Mancos . . . 2 scholarships

Veterans of Foreign Wars, Mancos

Southern Union Gas Company, Durango

Pepsi-Cola, Durango

Burns National Bank, Durango . . . 2 scholarships

First National Bank . . . 3 scholarships

Durango Savings and Building Association

Doctors Lloyd, Halley, and Pivonka

American Legion, San Juan Post no. 9, Aztec, New Mexico

L. Gardenswartz
BPOE, Cortez
McKnight Brothers
Ray Duncan

Information concerning scholarships and grants-in-aid may be obtained from the Student Financial Aids Office.

LOANS

Fort Lewis College maintains its own loan fund, known as the FORT LEWIS LOAN FUND, which provides small, short-term loans to Fort Lewis students already enrolled. Contributors to this fund include:

Dean George Franklin Snyder Memorial
Marie Oschner Memorial
Fort Lewis Alumni
Business and Professional Women
Kiwanis Club
Thelma Jean (Santee) Heizer Memorial
Ladies Auxiliary, LaPlata County Medical Society
Alice Bay Memorial
Marian Hallock Memorial
Stewart, McCoy Memorial
James Arthur Teague Memorial
Student Senate

Fort Lewis College is a participating institution in the NATIONAL DEFENSE STUDENT LOAN PROGRAM and the UNITED STUDENT AID FUNDS LOAN PROGRAM. Donors to the latter program include:

Community and Mercy Hospital Staff Doctors
Durango Kiwanis Club
Durango Lions Club (Hoyt C. Miller Memorial)
Durango Rotary Club
Student Senate Loan Fund in memory of James Teague.

Applications and information regarding loans are available from the Student Financial Aids Office.

EMPLOYMENT

Fort Lewis College operates a part-time employment program for its students on campus. The College also participates in the work-study program under the provisions of the Higher Education Act, 1965. Off-campus employment opportunities are coordinated by the

College. Application forms are available from the Student Financial Aids Office.

Requests for additional information and application forms should be directed to the Student Financial Aids Officer, Fort Lewis College, Durango, Colorado. Completed applications should be returned as soon as possible. Entering freshmen may apply concurrently with their application for admission. Students needing financial aid should apply prior to May 1 to insure full consideration for the fall term.

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, gymnastics, 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, gymnastics, wrestling and the Women's Recreation Association activities.

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, gymnastics, 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.

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. Various non-voting representatives from the freshman class and the housing office complete the board.

The CLUBS AND ORGANIZATIONS ACTIVITIES COUNCIL (COAC) is responsible for scheduling activities of clubs and organizations. It is also responsible for appropriating senate financial allocations to the clubs and organizations. Membership of this committee consists of representatives of all clubs, classes, and organizations chartered or constituted through the Student Government and the College.

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.

Business and economic majors may join the BUSINESS CLUB. The club's purpose is to broaden the student's practical and academic knowledge and also to provide services to Fort Lewis College and Durango's business community.

The STUDENT COLORADO EDUCATION ASSOCIATION (SCEA) members have activities that prepare them for employment in the teaching profession. They promote professionalism among future teachers. An annual election selects the professor of the year.

For students interested in history, there is the honorary history organization, PHI ALPHA THETA. This club's purpose is to promote interest and scholastic achievement in history and other subjects.

Social and other extracurricular activities are the main aim of the SKI CLUB. Besides bringing the ski enthusiasts together, it provides information about skiing to beginners.

Two of the larger clubs on campus are the SHALAKO INDIAN CLUB and WESTERNER'S CLUB. Both of these clubs are open to anybody. The Indians sponsor Hohzoni Days, and the cowboys sponsor Westerner's Week. Both of these provide fun and gaiety for the student body. These clubs bring their way of life and culture to the campus.

Students interested in dramatics and who want acting experience can join the FORT LEWIS COMMEDIA. The Commedia group presents several major productions as well as smaller theatre workshops each year.

For students with a musical interest, there are the RAIDER MARCHING BAND, THE SYMPHONIC ORCHESTRA, THE DANCE BAND and LARGE and SELECT CHORUSES which are open to all students. The PEP BAND adds to Raider spirit for the home football and basketball games.

The CHEERLEADERS, HILLTOPPERS, and LETTERMEN'S CLUB support and participate in athletic events. These clubs also sponsor social events and the annual Christmas party for underprivileged children.

Students at Fort Lewis can provide communication for the student body through KATZIMA (Year book) and INDEPENDENT (newspaper). These two organizations always have openings for interested and talented students and provide on-the-job training for future journalists.

The politically minded student can join either YOUNG DEMOCRATS or YOUNG REPUBLICANS. These clubs promote interest in politics on campus, especially during elections.

Students interested in religious clubs have their choice of NEWMAN CLUB, INTER-VARSITY CHRISTIAN FELLOWSHIP, and DESERET CLUB. Each of these clubs sponsors films and speakers pertaining to Christian growth and development.

A newly formed club is the MARRIED STUDENT ASSOCIATION (M.S.A.), which provides a social, economic, and political unity for married students and their spouses.

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 five officers who coordinate the hall activities. RHA traditionally sponsors Residence Hall Week and the Intramural Sports Program.

The G.I. CLUB is an organization for all interested ex-G.I.'s who have served in the military services.

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 advisers and department chairmen actively work to place their graduates.

GRADUATE SCHOOL PLACEMENT

The student faculty adviser, 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 adviser before the senior year at College.

GUIDANCE

It is the function of the Educational Adviser's office to coordinate the various guidance services to help all students make a successful adjustment to college life and plan adequately for the future. The Educational Adviser's office implements and supplements the guidance activities of faculty advisers.

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 consequences 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 College 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.

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.

OTHER SERVICES

HEALTH SERVICE

There are three distinct features of the College Health Service.

There is an out-patient treatment center located near the center of the campus and residence halls. A registered nurse is on duty forty hours each week and is on call at all times.

Medical doctors are retained and are on call by the College nurse at all times.

An accident and sickness insurance policy is available to all students.

ALL SUCCESSFUL APPLICANTS MUST PROVIDE THE COLLEGE NURSE WITH A RECORD OF A RECENT PHYSICAL EXAMINATION NO LATER THAN REGISTRATION. The College health card will be mailed to the applicant prior to registration.

HOUSING

The residence halls at Fort Lewis College provide a physical environment designed to further the academic, cultural, and personal development of the students. The College seriously 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.

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

Two snack bars are provided for the student body, one located in the New Student Union and one in Miller Student Center. 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 (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 8:00 a.m. to 5:00 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 Miller Student Center 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 IN 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 adviser, 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.

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

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. The Bachelor of Science Degree is offered in Biology, Chemistry, 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.

COOPERATIVE PROGRAMS

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 study 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, 1970 on the Fort Lewis campus and a similar seminar on *Urban Problems* at the same time on the Virginia Union campus are examples. The Shakespeare travel-study group involving Fort Lewis and Concordia students under the direction of Fort Lewis faculty member, Dr. G. Leonard Bird, is another example. Dr. Bird's group will study in England.

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

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. The Dean of Faculty welcomes inquiries on adult education.

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 Academic Standards Committee.

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 be-

gining 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 312)
Music (except Mu 215, Mu 216, 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.

MAJORS

All students seeking baccalaureate degrees must select a major area of study for specialization. The College now offers majors in Biology, Chemistry, 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.

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.

A **FRESHMAN** is defined as a regular student who has completed less than 36 credit hours of college work.

A **MIDDLE-YEAR STUDENT** is one who has completed more than 36 but less than 89 credit hours of college work.

A **SENIOR** is one who has completed at least 90 credit hours of college work.

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.

Required courses may be repeated as often as necessary until the student receives a grade of **D** or better. If a student receives a grade of **F** or **W** in other courses, he may normally repeat it only once, unless the catalog description of the course indicates otherwise. Exceptions may be made because of extenuating circumstances if the course instructor, the student's adviser, and chairman of the department involved approve the request.

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

First-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.

If a student wishes to take more than 18 hours, he must secure the permission of his department chairman. 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 list of faculty members for each discipline is as of February, 1970. 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. The Freshman Seminar course described below is listed first because the various seminars are drawn from almost all the disciplines.

FS 101, 102 FRESHMAN SEMINAR

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.

SCHOOL OF ARTS AND SCIENCES

AGRICULTURE

LATIN

ANTHROPOLOGY

MATHEMATICS

ART

MUSIC

BIOLOGY

PHILOSOPHY

CHEMISTRY

PHYSICS

ENGINEERING

POLITICAL SCIENCE

ENGLISH

SOCIOLOGY

FOREIGN LANGUAGES

SPANISH

FORESTRY

SPEECH

FRENCH

THEATRE

GEOLOGY

Interdisciplinary work in:

GERMAN

THE HUMANITIES

HISTORY

THE PHYSICAL SCIENCES

INDUSTRIAL ARTS

AGRICULTURE

Professor Herbert E. Owen; Associate Professor James G. Erickson; Part-time Instructors Robert Marquiss, Leon R. Mills, Howard D. Moore.

The agricultural program at Fort Lewis College provides the equivalent of the first two years at an agricultural college. The agricultural courses offered are basic courses needed in any area. The program also provides the agricultural student with a liberal arts background. It is not designed as a terminal program. It is possible for a student to transfer all his courses 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
Introduces the student to the basic elements of animal husbandry with emphasis on beef, sheep, swine, and dairy production. | (4-3) 5 |
| Ag 102 | FORAGE AND CROP PRODUCTION
Principles of forage and field crop production. Crops in Colorado are stressed.
<i>Prerequisite:</i> Biology 102 | (4-3) 5 |
| Ag 231 | RANGE AND PASTURE MANAGEMENT
A study concerning management, development, and utilization of range land and pasture and a short survey of the more common poisonous plants
<i>Prerequisites:</i> Biology 102 and Ag 102 Forage and Crop Production. | (4-3) 5 |
| Ag 235 | SOILS
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. | (3-2) 4 |
| Ag 240 | FEEDS AND FEEDING
A study of the principles of feeding livestock with emphasis on the use of feeds available in the western states.
<i>Prerequisite:</i> Permission of instructor | (3-3) 4 |
| Ag 250 | FARM MANAGEMENT
Basic economic principles applied to farm and ranch operations. | (3-0) 3 |

ANTHROPOLOGY

Professor John C. Ives (Chairman); 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, the curriculum is so designed that there is a range of courses in Anthropology to serve the interest of the College as a whole, especially as electives in the broad liberal education tradition. The interests of the amateur archaeologist as well as those interested in other ethnic groups are served.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN ANTHROPOLOGY

General Studies		41
<i>Specific Departmental Requirements</i>		
Anth 151 Introduction Anthropology	3	
Anth 256 Primitive Cultures	3	
Anth 351 Social Anthropology	3	
Anth 396 Seminar or	2	
Anth 399 Independent Study		11
<i>Other Departmental Requirements</i>		
One course in Physical Anthropology		
One course in Archaeology or Prehistory		
One laboratory (in either Archaeology or Physical Anthropology)	21	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: HUMAN EVOLUTION	(3-0) 3
	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: LABORATORY	(0-2) 1
	Human skeletal identification, supplemental to Physical	

- Anthropology, Part I. May be taken concurrent with, or following Anth 201.
- Anth 215 **PRIMITIVE RELIGION** (3-0) 3
A study of religious behavior in non-literate societies.
- Anth 221 **TOPICS IN ETHNOGRAPHY** (3-0) 3
A survey of a particular culture area of the world. May be repeated for different topics.
- Anth 231 **ARCHAEOLOGY OF THE SOUTHWEST, PART I: THE SAN JUAN PUEBLOS** (3-0) 3
The development of the Pueblo dwelling peoples of the Four Corners Area.
- Anth 231L **ARCHAEOLOGY OF THE SOUTHWEST, LABORATORY PART I** (0-2) 1
Laboratory Part I is designed to go with Part I of Archaeology of the Southwest lectures.
Prerequisite Concurrent with Anth 231 or following Anth 259.
- Anth 253 **PREHISTORY** (3-0) 3
The development of Old World culture from the Old Stone Age through the Iron Age.
- Anth 254 **THE NORTH AMERICAN INDIAN** (3-0) 3
Archaeology, ethnology, and linguistic relationships of the Indians of North America.
- Anth 256 **PRIMITIVE CULTURES** (3-0) 3
An ethnographic survey of the peoples and cultures of Africa, Eurasia, and Oceania and the New World.
- Anth 259 **FIELD TRAINING IN ARCHAEOLOGY** 8
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 those students who have taken Anth 231 and to students in their last year. However, the course is open to and suitable for all students.
- Anth 276 **FOLKLORE OF THE SOUTHWEST** (3-0) 3
Same course as English 276.
- Anth 301 **PHYSICAL ANTHROPOLOGY, PART II: PRINCIPLES OF ON-GOING EVOLUTION** (3-0) 3
Man's adaptation to the physical environment as modified by man's culture and the range of human genetic variability.
Prerequisite Consent of instructor.

- Anth 301L **PHYSICAL ANTHROPOLOGY, PART II: LABORATORY** (0-2) 1
 An introduction to statistical techniques and genetic problems supplemental to Physical Anthropology, Part II. May be taken concurrent with or following Anth 301.
- Anth 331 **ARCHAEOLOGY OF THE SOUTHWEST, PART II(3-0) 3 THE HOHOKAM & MOGOLLON CULTURES**
 The development of the Hohokam and Mogollon cultures in the southern Southwest. A study of archaeological interpretations and method as applied to the Southwestern United States.
Prerequisite: Anth 231, or consent of instructor
- Anth 331L **ARCHAEOLOGY OF THE SOUTHWEST LABORATORY.** (0-2) 1
 Part II is designed to go with Part II Archaeology of the Southwest lectures.
Prerequisite: Anth 231L or consent of instructor.
- Anth 351 **SOCIAL ANTHROPOLOGY** (3-0) 3
 Same as in present catalog plus prerequisite: Any course dealing with social or cultural anthropology, or the consent of the instructor.
- Anth 368 **CULTURE AND PERSONALITY** (3-0) 3
 Same as course as Psych 368
Prerequisite: see Psych 368
- Anth 396 **SEMINAR** (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Anth 399 **INDEPENDENT STUDY** 1-3
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman

ART

Assistant Professor Stanton Englehart (Chairman); 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 Art Department will serve 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 140 Survey of Art History		3	
Art 141 Survey of Art History		3	
Art 350 Theory and Aesthetics		4	
Art 396 Seminar			
or			
Art 399 Independent Study		2	
			12
<i>Other Departmental Requirements</i>			
20 hours from the remainder of Art offerings with the exception of			
Art 312 Art for Elementary Teachers		20	
			32
<i>Auxiliary requirements from other departments</i>			
Two trimesters of college Math			
or			
Two trimesters of college Foreign Language	6-8	6-8	
<i>Electives</i>			47-49
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 140	SURVEY OF 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 141 **SURVEY OF ART HISTORY FROM THE RENAISSANCE** (3-0) 3
 A continuation of Art 140.
- Art 155 **BASIC DESIGN** (0-6) 4
 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 160 **TWO AND THREE DIMENSIONAL SCULPTURE** (0-6) 4
 A course dealing with two-dimensional design in form and bas-relief. It also consists of modeling in plastic materials and carving and shaping more rigid and resistant materials such as wood, metal, and stone.
- Art 170 **DRAWING** (0-6) 4
 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 171 **DRAWING** (0-6) 4
 A continuation of Art 170.
Prerequisite: Art 170.
- Art 180 **CERAMICS** (0-6) 3
 Individual projects and forming of pottery of varied styles. Emphasis will be placed upon expressive forms. Practice in ceramic procedures and use of materials: throwing, molding, glazing, and firing.
- Art 181 **CERAMICS** (0-6) 3
 A continuation of Art 180.
Prerequisite: Art 180
- Art 200 **ART APPRECIATION** (3-0) 3
 A course devoted to the study of the expression of man as revealed through the visual arts.
- Art 220 **PAINTING** (0-6) 4
 Instruction in oil painting. Students will concentrate on compositional and color problems while working from human figures, still life, and landscape. (Course work in this area offered at the beginning and advanced levels.)
- Art 221 **PAINTING** (0-6) 4
 A continuation of Art 220.
Prerequisite: Art 220.

Art 263	ADVANCED STUDIO Special Topics <i>Prerequisite:</i> Consent of Instructor	(0-6) 4
Art 312	ART IN THE ELEMENTARY SCHOOL Contemporary and historical concepts, practices, and methods used in the elementary school art program.	(3-0) 3
Art 350	THEORY AND AESTHETICS The appreciation and understanding of the various art forms.	(4-0) 4
Art 363	ADVANCED STUDIO Special topics. <i>Prerequisite:</i> Consent of Instructor	(0-6) 4
Art 396	SEMINAR Students prepare and present library research papers. <i>Prerequisite:</i> Approval of instructor.	(2-0) 2
Art 399	INDEPENDENT STUDY Individual research is conducted under the supervision of a faculty member. <i>Prerequisite:</i> Approval of Department Chairman	1-3

BIOLOGICAL SCIENCE

Professors Herbert E. Owen (Chairman), John F. Reed (on leave 1969-70); Associate Professors James Erickson, Albert Spencer; Assistant Professors John E. Dever, Richard G. Keator; Instructor Lee P. Somers III.

Biological Science at Fort Lewis College offers curricula designed to fit the desires and requirements of many types of students. The **ONE MAJOR OFFERED IS BIOLOGICAL SCIENCE** within which there are **TWO** avenues of preparation, one leading to the degree of Bachelor of Science in Biological Science with an option in **GENERAL BIOLOGY** and a second leading to the degree of bachelor of science in biological science with an option in **NATURAL HISTORY**. Students expecting to teach biological science at the secondary level, or seeking pre-professional training for such areas as medicine, dentistry, and veterinary medicine, and students enrolled in the cooperative programs in medical technology are expected to select the option in general biology.

The natural history option is particularly valuable for those students who would plan to enter the National Parks Service or some other such government agency. It may also be used by prospective secondary teachers, although it is felt that the general biology option 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. 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.

OPTION IN GENERAL BIOLOGY

A student selecting the Option in General Biology 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 271 Genetics	4
Other Biology Courses	19
Bio 396 Seminar or Bio 399 Independent Study	2
	37
	37

(At least three biology courses in the 200 series, and three in the 300 series must be taken.)

Auxiliary Requirements from Other Departments

Four trimesters of chemistry	18-20	18-20
------------------------------	-------	-------

<i>Electives</i>	30-32
------------------	-------

TOTAL REQUIRED FOR GRADUATION	128
--------------------------------------	-----

The student is strongly urged to take one year of German or French, Advanced Composition (Engl 204), physics and mathematics. Additional courses in mathematics and the physical sciences will be useful in graduate school.

OPTION IN NATURAL HISTORY

A student selecting the Option in 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	5
Bio 203 Field Zoology	5
Bio 371 Ecology	5
Bio 396 Seminar or Bio 399 Independent Study	2
Other biology credit hours	8
	37 37

(At least three biology courses in the 200 series, and three in the 300 series must be taken.)

Auxiliary Requirements from Other Departments

Three trimesters of courses in one of the following fields:

Anthropology, Chemistry, Geology,
Mathematics, Physics 9-12

Electives 38-41

TOTAL REQUIRED FOR GRADUATION 128

SECONDARY EDUCATION

A student planning to enter the secondary education field in Biology should take the General Biology Option 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. Frickson, Associate Professor of Biology, is the adviser for the program. Students entering this program must complete, in addition to the normal requirements for the option in general biology, the following courses:

	Hours
Bio 231 Comparative Anatomy	4
Bio 331 Microbiology	6
Approved Course in Mathematics	3
Physics - one trimester	4
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 biological science, 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 divisional requirements for the bachelor's degree. In addition, their preparation for graduate school should include the following courses:

Inorganic and organic chemistry

General Physics

One year of a foreign language, preferably German

Statistics and College Mathematics

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** (0-3) 1
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.
- Bio 101 **GENERAL BIOLOGY** (3-0) 3
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.
- Bio 102 **GENERAL BOTANY** (3-3) 4
Study of the development of the plant kingdom.
Prerequisite: Bio 101
- Bio 103 **GENERAL ZOOLOGY** (3-3) 4
Study of the development of the animal kingdom from the protozoans through the vertebrates.
Prerequisite: Bio 101
- Bio 121 **HUMAN ANATOMY & PHYSIOLOGY** (2-3) 3
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.
- Bio 201 **SYSTEMATIC BOTANY** (3-3) 4
A study of the classification and relationship of the major flowering plant groups; use of plant keys and related terminology.
- Bio 203 **FIELD ZOOLOGY** (4-3) 5
Collection, identification, and museum preparation of the vertebrate animals of the region.
- Bio 205 **ENTOMOLOGY** (2-3) 3
A study of the general anatomy and physiology of insects and their identification and control.
- Bio 221 **GENERAL PHYSIOLOGY** (3-3) 4
Studies of functions of animal and plant cells, tissues, organs and whole organisms emphasizing the basic processes common to all organisms.
Prerequisites: Bio 101 and concurrent enrollment in Chem 116 or 148.
- Bio 231 **VERTEBRATE COMPARATIVE ANATOMY** (2-6) 4
A morphological study of the evolutionary development of vertebrate animals. Comparative dissections of representa-

tive animals will be done.

Prerequisite: Bio 103.

- Bio 232 **VERTEBRATE EMBRYOLOGY** (2-6) 4
 A detailed study of reproduction and development in representative vertebrates.
- Bio 271 **GENETICS** (3-2) 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 273 **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 301 **PLANT MORPHOLOGY** (3-2) 4
 Study of structure, reproduction, modifications and evolutionary development of vascular plants.
- Bio 303 **HISTOLOGY** (2-3) 3
 Microscopic anatomy of the vertebrate body.
- Bio 331 **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 355 **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 371 **ECOLOGY** (4-3) 5
 An introductory study of the relationships between animals, plants and their environment.
- Bio 373 **MAMMALIAN PHYSIOLOGY** (3-3) 4
 Functions of the mammalian organ systems with emphasis on nutrition, metabolism and reproduction.
- Bio 375 **BIOGEOGRAPHY** (3-0) 3
 A study of the past and present distributions of plants

and animals. Emphasis will be on seed plants vertebrate animals.

Bio 396 **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 399 **INDEPENDENT STUDY** 1-3

Individual research conducted under the supervision of a faculty member.

Prerequisite: Approval of Department Chairman.

CHEMISTRY

Assistant Professors Merle Harrison (Chairman); Rodney D. Hamilton; Perry L. Maxfield; Instructor Arlan K. Ross.

The Chemistry Department offers a major in chemistry designed 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

Specific Departmental Requirements

Chem 147 and 148 (or Chem 115 and 116) 10

General Chemistry

Chem 231 and 232 Organic Chemistry 10

Chem 258 Physical Chemistry 4

One of the following three courses 8

Chem 264 Inorganic Chemistry

Chem 265 Analytical Chemistry

Chem 259 Physical Chemistry

At least one course numbered above 300

Chem 396 Seminar or Chem 399		
Independent Study	2	
Minimum total hours in Chemistry	34	34
<i>Auxiliary Requirements from Other Departments</i>		
Mathematics through Math 231	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 number above 148,
preferably Chem 231, 258, and 264.**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 258 **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 231 concurrently
- Chem 259 **PHYSICAL CHEMISTRY** (3-3) 4
 A continuation of Chem 258.
Prerequisite: Chem 258
- Chem 264 **INORGANIC CHEMISTRY** (3-3) 4
 Modern concepts of inorganic chemistry, modern methods of synthesis and instrumentation involving major group elements, coordination chemistry and organo-metallic chemistry.
Prerequisite: Chem 258 recommended.
- Chem 265 **ANALYTICAL CHEMISTRY** (2-3) 3
 Modern analytical theory and methods, including electrical, optical and chromatographic techniques.
Prerequisite: Chem 258

- 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 354 **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 series course(s) in the specific subject area.
- Chem 364 **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 396 **SEMINAR** (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Chem 399 **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 (Chairman)

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 pro-

gram 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 at that institution.

Although the above discussion pertains to the agreement with Colorado State University, the courses offered by the Department 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 122, 231, 232, 327)	16	
(for Math degree, additional courses above Math 250)	11	
Chem 147, 148 General 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 396 Seminar or Math 399 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 122, 231, 232, 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.	

Two courses in English Literature (any two parts of 220 and 300)	
Engl 396 Seminar	
or	
Engl 399 Independent Study	
Other courses bringing total to 34 hours	34
<i>Auxiliary Requirements from other departments</i>	
Two trimesters of college mathematics	
or	
Two trimesters of college foreign language	6-8
<i>Electives</i>	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 five 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 com-
 prehension 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 of the meaning of words in
 context to the communication process. An introductory
 course intended for the general student.
- Engl 130 **THE ENGLISH TRADITION IN** (3-0) 3
LITERATURE
 The English literary and cultural heritage presented in
 its historical context.
- Engl 140 **THE AMERICAN TRADITION IN** (3-0) 3
LITERATURE
 The American literary and cultural heritage presented in
 its historical context.
- Engl 151 **ORAL INTERPRETATION OF LITERATURE** (3-0) 3
 The areas of concentration in this course include the use
 of voice and body in the interpretation of literary materi-
 als, the interpreter's relation to the audience, and find-
 ing and expressing orally the meaning in the basic forms
 of literature: prose, poetry, and drama. Also serves as a
 theater 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 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.

Prerequisite: Engl 121 and permission of instructor

Engl 227 **CHILDREN'S LITERATURE** (4-0) 4

Folk literature, poetry, drama, and informational books for pre-school and elementary school children. Emphasis is placed upon the development of criteria for the selection of appropriate literature for children at different levels. Students in this course are strongly advised also to take Oral Interpretation of Literature (Engl 151) though not necessarily concurrently.

LITERATURE COURSES APPLICABLE TO THE MAJOR

Engl 160 **MASTERPIECES OF WORLD LITERATURE** (3-0) 3

A two-part course in masterpieces, but excluding English and American and the content of courses 210 and 270, with credit granted for each part completed: I to 1914; II Since 1914.

Engl 210 **WORLD LITERATURE** (3-0) 3

A two-part course, with credit granted for each part completed: I Classical; II Bible.

Engl 220 **ENGLISH LITERATURE** (3-0) 3

A five-part course, with credit granted for each part completed: I Through the Renaissance; II Restoration and 18th Century; III 1798-1850; IV 1850-1914; V English Novel. Emphasis in parts I - IV on poetry and non-fictional prose.

Engl 230 **AMERICAN LITERATURE** (3-0) 3

A three-part course, with credit granted for each part completed: I From Puritans to 1835; II American Renaissance; III 1865- 1914.

Engl 270 **DRAMATIC LITERATURE** (4-0) 4

A study and analysis of plays exclusive of Shakespeare.

Engl 276 **FOLKLORE OF THE SOUTHWEST** (3-0) 3

A study of Anglo-American, Hispanic, and American 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 AMERICAN WEST** (3-0) 3
The literature of the American West, with primary concentration on the Southwest.
- Engl 300 **MAJOR ENGLISH WRITERS** (3-0) 3
A two-part course, with credit granted for each part completed: I Chaucer; II Shakespeare.
- Engl 310 **CONTEMPORARY LITERATURE** (3-0) 3
A two-part course in literature since 1914, with credit granted for each part completed: I English and American Poetry; II English and American Fiction.

**ENGLISH LANGUAGE AND COMPOSITION COURSES
APPLICABLE TO THE MAJOR**

- Engl 260 **LANGUAGE AND COMPOSITION** (3-0) 3
A four-part course, with credit granted for each part completed: I History of the English Language; II English Linguistics; III Advanced Composition; IV Creative Writing.

CAPSTONE COURSES APPLICABLE TO THE MAJOR

- Engl 396 **SEMINAR** (2-0) 2 or (3-0) 3
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Engl 399 **INDEPENDENT STUDY** 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman.

FOREIGN LANGUAGES

Associate Professor William J. Freitas; Assistant Professors Maria Delaney (Acting chairman), Manuel A. Rodriguez (on leave 1969-70); Instructors Lucienne DeSimplaire, 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 preparation 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 get

a minor for teaching purposes must get 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 secondary schools.

COURSE OFFERINGS

FRENCH

- FL 147 **ELEMENTARY FRENCH I** (4-0) 4
A course in grammar, prose composition, reading and conversation.
- FL 148 **ELEMENTARY FRENCH II** (4-0) 4
Further study of French with emphasis on reading, composition, and conversation.
Prerequisite: FL 147
- FL 247 **INTERMEDIATE FRENCH I** (3-0) 3
A course in second-year French with emphasis on reading and conversation.
Prerequisite: FL 247
- FL 248 **INTERMEDIATE FRENCH II** (3-0) 3
Continuation of FL 247.
Prerequisite: FL 247.
- FL 301 **ADVANCED FRENCH COMPOSITION AND SYNTAX** (3-0) 3
Composition and syntax through the study and analysis of French literary masterpieces.
Prerequisite: FL 248
- FL 308 **CONTEMPORARY FRENCH LITERATURE** (3-0) 3
Emphasis on French literature.

GERMAN

- FL 123 **ELEMENTARY GERMAN I** (4-0) 4
A course in grammar, pronunciation, and reading.
- FL 124 **ELEMENTARY GERMAN II** (4-0) 4
A continuation of FL 123
Prerequisite: FL 123.
- FL 223 **INTERMEDIATE GERMAN I** (3-0) 3
A continuation of FL 124 with emphasis on reading and conversation.
Prerequisite: FL 124
- FL 224 **INTERMEDIATE GERMAN II** (3-0) 3
Continuation of FL 223
Prerequisite: FL 223.

FL 323	THIRD YEAR GERMAN I	(3-0) 3
	Emphasis on literature and advanced reading and conversation.	
FL 324	THIRD YEAR GERMAN II	(3-0) 3
	Emphasis on literature and advanced reading and conversation.	
FL 325	MASTERPIECES OF GERMAN LITERATURE	(3-0) 3
	Topics will vary; can be taken more than once for credit.	

LATIN

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

SPANISH

Fort Lewis College offers a major in Spanish. It provides students with proficiency in spoken Spanish and an insight into Spanish-American culture. It prepares students for professional employment and for 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

Specific Departmental Requirements

FL 311 and FL 312 Survey of Spanish Literature I & II	or	6
FL 321 and FL 322 Survey of Hispanic American Literature I & II		6
FL 396 Seminar or FL 399 Independent Study		2
		8

Other Departmental Requirements

12 hours from the remainder of the Spanish offerings numbered above 300 12

For those who need it:

FL 115 and FL 116 Elementary Spanish	8
FL 215 and FL 216 Intermediate Spanish	6
	26 34

Auxiliary Requirements from other departments

SW 365 Hispanic Civilization	3
------------------------------	---

SW 375 Hispanic American Civilization	3	
	6	6

Electives 47

TOTAL REQUIRED FOR GRADUATION 128

COURSE OFFERINGS

FL 115	ELEMENTARY SPANISH I	(4-0) 4
	A course in grammar, prose composition, reading, and conversation.	
FL 116	ELEMENTARY SPANISH II	(4-0) 4
	Further study of Spanish with emphasis on reading, composition, and conversation.	
	<i>Prerequisite:</i> FL 115	
FL 215	INTERMEDIATE SPANISH I	(3-0) 3
	A course in second-year Spanish with emphasis on grammar review, reading, and conversation.	
	<i>Prerequisite:</i> FL 116	
FL 216	INTERMEDIATE SPANISH II	(3-0) 3
	Continuation of the study of the first semester of second-year Spanish with emphasis on reading, conversation, and grammar review.	
	<i>Prerequisite:</i> FL 215.	
FL 311	SURVEY OF SPANISH LITERATURE I	(3-0) 3
	A survey of the literature of Spain from the 10th to the 18th centuries.	
FL 312	SURVEY OF SPANISH LITERATURE II	(3-0) 3
	A survey of the literature of Hispanic America from 1824 to the present.	
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 the literature of the Wars of Independence.	
	<i>Prerequisite:</i> FL 216 or equivalent.	
FL 322	SURVEY OF HISPANIC AMERICAN LITERATURE II	(3-0) 3
	A course dealing with the Romantics, Realists, Modernists, and Naturalists of the 19th Century Spanish American	

Republics. Also the literature of the 20th century emphasizing the Mexican Revolution and Contemporary Spanish American writers will be included.

Prerequisite: FL 216 or equivalent.

FL 325 **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 326 **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 327 **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 contemporary poetic works.

Prerequisite: FL 216 or equivalent.

FL 329 **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 395 **TRANSLATION OF HISTORICAL DOCUMENTS** (3-0) 3

Translation of Spanish documents concerning the American Southwest.

Prerequisite: Consent of Instructor

FL 396 **SEMINAR IN SPANISH** (2-0) 2

Students prepare and present library research papers.

Prerequisite: Senior standing and permission of instructor.

FL 399 **INDEPENDENT STUDY IN SPANISH** 1-3

Individual research conducted under the supervision of a faculty member.

Prerequisite: Approval of Department Chairman.

SEE COURSES UNDER SOUTHWEST STUDIES (REQUIRED OF SPANISH MAJORS).

FORESTRY

Professor Herbert E. Owen (Chairman); Assistant Professor Otto Rohde.

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 such related areas; i.e., 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 106 **MAP DRAFTING AND READING** (0-3) 1
Lettering and use of simple drafting equipment. Map interpretation.
- For 211 **DENDROLOGY** (3-3) 4
Classification, identification, silvical characteristics, economic importance and distribution of the broad-leaved and doniferous 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**
GEOLOGY see **PHYSICAL SCIENCES MAJOR**
GERMAN see **FOREIGN LANGUAGES**

HISTORY

Professor Robert W. Delaney (Chairman); Associate Professors Gilbert C. Din, Duane A. Smith (on leave Winter Trimester 1970-71); Assistant Professors Harold D. Cater (temporary Winter Trimester 1970-71), Thomas R. Eckenrode, Ray M. Reeder.

Fort Lewis College offers a major in History. The area of history and social science is an important part of a liberal education. The

courses also help to prepare students both for graduate work and for careers in many fields, including teaching, public service, and journalism.

Students are encouraged to pursue historical knowledge as an ordered set of carefully reached judgments with integrity and to illuminate the issues of the present and help provide standards by which to appraise the trends of the contemporary world.

Students intending to teach should be admitted to the Teacher Education program and acquire the hours in Education necessary for certification.

History majors are required to take a minimum of 35 hours of history, but not allowed more than a maximum of 42 hours in the major.

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 three courses in European History, and a minimum of one course in either Latin American, Asian, or African History	12-18	
Hist 396 Seminar		
or		
Hist 399 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 three courses of American and/or Latin American, Asian, or African History	12-18	
Hist 396 Seminar		
or		
Hist 399 Independent Study	2	35-42

Requirements from other departments

Two trimesters of college mathematics		
or		
Two trimesters of foreign language	6-9	6-9

<i>Electives</i>	36-46
TOTAL REQUIRED FOR GRADUATION	128

COURSE OFFERINGS

- Hist 130 **SURVEY OF WESTERN CIVILIZATION I AND II** (3-0) 3
 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 141, **SOCIAL AND POLITICAL HISTORY OF** (3-0) 3
 142 **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 150 **SURVEY OF AMERICAN HISTORY I AND II** (3-0) 3
 A two-trimester general introductory survey of United States history. Either part may be taken first. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- Hist 160 **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. Students may take this course one or more times for credit, provided the subject is different on each occasion.
- 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 with offering. 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 with each offering. 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 360 **STUDIES IN EUROPEAN HISTORY** (3-0) 3
A study of the history of Europe. The specific topic will vary with each offering. 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 for 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 with each offering. 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 380 **STUDIES IN AMERICAN HISTORY** (3-0) 3
A study of the history of the United States and Canada. The specific topic will vary with each offering. 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 396 **SEMINAR** (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor
- Hist 399 **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 Division's offerings, to give a total of 44 hours. The student will receive a broad background in the liberal and fine arts. 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, 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.

INDUSTRIAL ARTS

Assistant Professor Donald Spangberg

This curriculum is designed to augment a liberal education with practical work in Industrial Arts. It is also designed to provide a minor in Industrial Arts for secondary school teaching as well as basic work toward an Industrial Arts degree which may then be obtained by transferring to an institution offering such a degree.

Requirements for Secondary teachers (minor) in Industrial Arts

- IA 101 Elementary Woodworking (4)
- IA 102 Advanced and Machine Woodworking (4)
- IA 201 Electric Welding (4)

A minimum of 12 hours to be selected from:

- IA 220 Crafts I (Artmetal & Leathercraft) (4)
- IA 221 Crafts II (Lapidary & Silversmithing) (4)
- A 155 Basic Design (4)
- A 160 Two & Three Dimensional Design (4)
- A 170 Basic Drawing (4)
- A 180 Ceramics (3)
- A 181 Ceramics (3)

COURSE OFFERINGS

- IA 101 **ELEMENTARY WOODWORKING** (2-5) 4
Basic techniques in woodwork with emphasis in designing, layout and construction of projects using hand tools. The care of tools and shop maintenance is also stressed.
- IA 102 **ADVANCED AND MACHINE WOODWORKING** (2-5) 4
Introduction in the use of woodworking machines. Students will concentrate on advanced techniques of design and the use of new finishes is also stressed.
Prerequisite: IA 101.
- IA 201 **ELECTRIC WELDING** (2-5) 4
The fundamentals of how to use welding equipment and to operate different kinds of welding machines. Includes flat, vertical, and overhead welding and the use of the cutting torch. One project of metal sculpture is required (wrought iron or scroll work).
- IA 220 **CRAFTS I** (2-5) 4
Includes artmetal and leathercraft. Emphasis of individual design is stressed in the ornamentation of aluminum, copper, brass, the etching of aluminum, modeling and carving of leather.
- IA 221 **CRAFTS II** (2-5) 4
A course in lapidary and silversmithing. Stresses individual design of jewelry and the cutting and polishing of gem quality rocks.

LATIN

see **FOREIGN LANGUAGES**

MATHEMATICS

Professor Ottis H. Rechar; Associate Professor Donald D. Bushnell (Chairman); Assistant Professors Richard D. Anderson, Robert L. Motsch, Harry C. Rosenberg; Instructors Ulyss Lee Briggs, Harold F. Stocker.

The Mathematics Department provides a major which prepares students for graduate study, teaching in secondary schools, or employment in industry. It is also a service department offering courses for students majoring in other fields.

The student who completes a major in mathematics graduates with a Bachelor of Arts degree in mathematics. For graduation, a student must complete 15 hours of credit in mathematics courses bearing numbers higher than 250.

One who plans to major in mathematics should begin his studies with Math 121 Elementary Functions if possible. He should have taken at least two years of algebra, one year of geometry, and some trigonometry at the high school level. Students with exceptional mathematical backgrounds may be placed in more advanced courses. A student may not count a course below Math 121 toward a mathematics major.

The student who plans to do graduate work in mathematics should take Math 276 Algebraic Structures, Math 376 Linear Algebra, Math 332 Advanced Calculus, and at least one year of German or French. He should also consult the chairman of the Mathematics Department where he intends to do graduate work to learn of any special requirements of that department.

The student who plans to teach secondary school mathematics should take Math 276 Algebraic Structures, Math 376 Linear Algebra, and Math 342 College Geometry.

The Mathematics Department provides some course for people who are majoring in other academic disciplines. Students planning to enroll in Math 100 Mathematics for Liberal Arts should have taken at least one year of algebra and one year of geometry in high school. Math 91 Fundamentals of Mathematics and Math 92 Trigonometry are courses designed for students who do not have the necessary background for Math 121 Elementary Functions and for students who have a special need for the knowledge of elementary algebra or trigonometry. Math 111 Elementary Statistics is designed for students without a background in calculus who want an introduction to statistical methods.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN MATHEMATICS

General Studies 41

Specific Departmental Requirements

Mathematics courses through Math 232	
Calculus	17
Math 276 and Math 376 or	
Math 332 and Math 333	6

Other Departmental Requirements

9 additional hours from courses numbered above Math 250	9
---	---

Math 396 Seminar or Math 399		
Independent Study		2
		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 111	ELEMENTARY STATISTICS	(3-0) 3
	The types and treatments of data, sampling theory, and inferences. <i>Prerequisite:</i> Math 101 or equivalent.	
Math 115	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 116	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 system, sequences, and shortcomings of the rational numbers.

Prerequisite: Math 115

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 122 **CALCULUS** (4-0) 4

Differential and integral calculus of the elementary functions with associated geometry.

Prerequisite: Math 121.

Math 231 **CALCULUS** (4-0) 4

Techniques of single-variable and multi-variable calculus and an introduction to differential equations.

Prerequisite: Math 122.

Math 232 **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: Mathematics 231

Math 241 **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 116

Math 242 **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 241

Math 251 **FOUNDATIONS FOR ADVANCED MATHEMATICS** (3-0) 3

A study of axiomatic systems including axiomatic devel-

opment of logic, set theory, and a number system; and a study of applications of logic and sets to mathematical structures

Prerequisite: Math 231.

- Math 276 **ALGEBRAIC STRUCTURES** (3-0) 3
 Groups, rings, fields, quotient structures, isomorphism theorems.
Prerequisite: Math 232 or permission of instructor.
- 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 232 and Engineering 150
- Math 327 **DIFFERENTIAL EQUATIONS** (4-0) 4
 The types and solutions of differential equations
Prerequisite: Math 232
- Math 332 **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 on Euclidean spaces
Prerequisite: Math 232
- Math 333 **ADVANCED CALCULUS** (3-0) 3
 A continuation of Mathematics 332. Topics include the Stieltjes integral on the line and in Euclidean spaces, infinite series, and an introduction to function spaces.
Prerequisite: Math 332.
- Math 341 **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 232.
- Math 342 **MODERN COLLEGE GEOMETRY** (3-0) 3
 The advanced theories and topics in geometry
Prerequisite: Math 232.

**BACHELOR OF ARTS DEGREE WITH A MAJOR IN
MUSIC – INSTRUMENTAL EMPHASIS**

General Studies	41
<i>Specific Departmental Requirements</i>	
Mu 100 Fundamentals of Music	3
Mu 101 Sight Singing	3
Mu 215 Instrumental Music	3
Mu 221 Theory I – Music Theory	5
Mu 222 Theory II – Music Theory	5
Mu 223 Instrumental and Choral Arranging	3
Mu 231 Survey of Music History I	3
or	
Mu 232 Survey of Music History II	3
Mu 350 Conducting	2
Mu 396 Seminar or Mu 399 Independent Study	2
	29
<i>Other Departmental Requirements</i>	
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 40-48
<i>Electives</i>	39-47
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 216 Vocal Music must be substituted for Mu 215, and the 8 to 16 hours of applied music must be directed toward vocal. Two semesters of piano or a proficiency test are required. Chorus participation in 6 to 8 trimesters is required.

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 213 should be substituted for Mu 215.

MUSIC MINOR FOR SECONDARY TEACHERS

The student who wishes to minor in music is required to take Mu 100, Mu 101, Mu 213, or Mu 215 or Mu 216, choice of one; Mu 231 or Mu 232, Mu 350, 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 beginning course in musical notation and the various elements of music theory.
- Mu 101 **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 102 **INTRODUCTION TO MUSIC** (3-0) 3
A music appreciation course designed for students seeking to fulfil General Studies requirements. Deals with major musical trends from medieval times to the present.
- Mu 105 **CHORUS** (0-2) 1
Open to all students. The course may be taken three times for a maximum of three hours' credit.
- Mu 110 **BAND** (0-3) 1
Open to all students who play musical instruments. The course may be taken three times for a maximum of three credit hours.
- Mu 200 **APPLIED MUSIC** (0-1½) 1
Individual or class instruction on musical instruments or voice.
Piano Woodwind Class
Voice Brass Class
Brass Voice Class
Woodwind Percussion Class
- Mu 205 **SELECT CHOIR** (0-3) 1
By audition only. This course may be taken three times for a total of three credit hours.
- Mu 213 **METHODS AND PRINCIPLES IN ELEMENTARY SCHOOL MUSIC** (3-0) 3
A study of materials and techniques used in singing and teaching elementary school music.
Prerequisite: Mu 316

- Mu 215 **METHODS AND PRINCIPLES IN INSTRUMENTAL MUSIC** (3-0) 3
Includes the study of principles and practices in teaching music and a playing knowledge of all standard band and orchestral instruments.
- Mu 216 **METHODS AND PRINCIPLES IN VOCAL MUSIC** (3-0) 3
Includes the study of principles and practices in teaching and singing of choral music.
- Mu 221 **THEORY I MUSICAL THEORY** (5-0) 5
Beginning theory, including harmony, keyboard, and dictation.
- Mu 222 **THEORY II MUSICAL THEORY** (5-0) 5
A continuation of Mu 221, leading to elements of composition and analysis.
Prerequisite: Mu 221.
- Mu 223 **INSTRUMENTAL AND CHORAL ARRANGING** (3-0) 3
Arranging for band, orchestra, and choral music.
- Mu 231 **SURVEY OF MUSIC HISTORY I** (3-0) 3
Study of the history of music from the Classical Antiquity to 1750.
- Mu 232 **SURVEY OF MUSIC HISTORY II** (3-0) 3
Study of the history of music from 1750 to the present.
- 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 350 **CONDUCTING** (2-0) 2
A course in the techniques of instrumental and choral conducting.
- Mu 396 **SEMINAR** (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- Mu 399 **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 374 **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; 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.
Prerequisite Senior standing, year of philosophy, or permission of instructor.

Phil 375 **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. *Prerequisite:* Senior standing, year of Philosophy, or permission of instructor.

PHYSICAL SCIENCE MAJOR

Professors Frank O. Bowman, Jr. (Chairman), Randall D. Taylor; Associate Professor Donald L. Baars; Assistant Professor Daniel I. Gibbons.

The student who completes a major in Physical Science graduates with a Bachelor of Science degree in Physical Science. He may choose either of the following options: The Geology Option wherein he earns 32 credit hours of geology, or the Physical Science Option wherein he distributes his major studies among the physical sciences.

GEOLOGY OPTION

Professor Frank O. Bowman, Jr. (Chairman), Associate Professor Donald L. Baars.

The student who takes the Geology Option develops a good background for further study or work in either Geology or Earth Science. If he wishes to attend graduate school, he should take as many science and mathematics courses beyond departmental requirements as practicable.

BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICAL SCIENCE – GEOLOGY OPTION

General Studies		41	
<i>Specific departmental requirements:</i>			
Geology 113-114		8	
24 additional hours in geology (excluding Geol 150)		24	
Geol 396 Seminar or Geol 399 Independent Study		2	
		34	34

Auxiliary requirements from other departments

Chemistry (2 trimesters, preferably Chem 147-148)	10	
Foreign Language (2 trimesters, preferably German or French)	8	
Mathematics through Math, preferably higher	6	
Physics (2 trimesters, preferably Phys 217-218)	10	
	34	34

<i>Electives</i> (Courses recommended for students planning to attend graduate school: One year of Botany or Zoology, additional work in chemistry e.g., Physical Chemistry), Engineering Principles 104-105, Elementary Surveying 205, additional work in foreign language, Mathematics through Calculus 323, additional work in Physics)		19
TOTAL REQUIRED FOR GRADUATION		128

PHYSICAL SCIENCE OPTION

Instructors from various Physical Science departments

The Physical Science Option affords a student good training in physical science within a liberal arts curriculum. The program comprises a concentration of courses which includes at least 18 credit hours selected from one of the physical sciences and 8 credit hours from each of the other two physical sciences. Any student planning to teach a physical science in a secondary school should find out the number of credit hours in that science required by the state in which he plans to teach.

BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN PHYSICAL SCIENCE – PHYSICAL SCIENCE OPTION

General Studies		41
-----------------	--	----

Specific departmental requirements

Chemistry (2 trimesters, preferably Chem 147-148)	10	
Foreign Language (2 trimesters, preferably German or French)	8	
Geology 113-114	8	
Mathematics through 122	9	
Physics (2 trimesters, preferably Phys 217-218)	10	
	45	45

Additional requirements depending on concentration selected

Chemistry Concentration

Chem 231, 258, and any other course
numbered above 231 12-14

Geology Concentration

Geology (3 courses numbered above 150) 9-12

Physics Concentration

Physics (3 courses numbered above 218) 9-14 9-14

Electives 28-33

TOTAL REQUIRED FOR GRADUATION 128

Note: Course descriptions for Chemistry are listed under Chemistry major.

COURSE OFFERINGS - GEOLOGY

- Geol 113 **PHYSICAL GEOLOGY** (3-3) 4
The processes and agents at work on the Earth and the land forms they produce
- Geol 114 **HISTORICAL GEOLOGY** (3-3) 4
The geologic history and development of life on the Earth as recorded by rocks and fossils.
Prerequisite Geol 113
- Geol 150 **GEOLOGY OF THE SOUTHWEST** (3-0) 3
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.
- Geol 207 **MINERALOGY** (3-3) 4
The elements of crystallography, and the classification and identification of minerals.
Prerequisite Geol 113
- 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 251	IGNEOUS AND METAMORPHIC ROCKS I The origin, occurrence, classification, and economic geology of igneous and metamorphic rocks. <i>Prerequisites:</i> Geol 113 and 207.	(2-3) 3
Geol 261	SEDIMENTARY ROCKS AND STRATIGRAPHY I The origin, classification, and significance of sedimentary rocks with regard to depositional environment and paleotectonic relationships. <i>Prerequisites:</i> Geol 113 and 114.	(2-3) 3
Geol 334	STRUCTURAL GEOLOGY The analysis of geologic structures in the Earth's crust. <i>Prerequisite:</i> Geol 113	(3-3) 4
Geol 341	FIELD METHODS The fundamental procedures in geologic field mapping. <i>Prerequisite:</i> Math 102 and permission of instructor.	(3-3) 4
Geol 351	IGNEOUS AND METAMORPHIC ROCKS II The origin, occurrence, classification, and economic geology of igneous and metamorphic rocks. <i>Prerequisite:</i> Geol 251	(2-3) 3
Geol 361	SEDIMENTARY ROCKS AND STRATIGRAPHY II The dating, correlation, mapping, and economic significance of stratified rocks. <i>Prerequisite:</i> Geol 261.	(2-3) 3
Geol 381	ADVANCED TOPICS IN GEOLOGY The thorough treatment of a special topic such as paleotectonics, micropaleontology, optical mineralogy, geotectonics, etc., not covered elsewhere in the curriculum. May be repeated for different topics. <i>Prerequisite:</i> Consent of instructor.	(3-3) 4
Geol 396	SEMINAR Students prepare and present research papers. <i>Prerequisite:</i> Approval of Instructor.	(2-0) 2
Geol 399	INDEPENDENT STUDY Individual research is conducted under the supervision of a faculty member. <i>Prerequisite:</i> Approval of Department Chairman.	1-3
COURSE OFFERINGS - PHYSICAL SCIENCES		
PhySc 100	LABORATORY-ELECTIVE Work covers experiments in the fields of physics.	(0-3) 1

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 development, problems in science, and problems from science. Area studies in electron theory, transistors, particle chemistry

COURSE OFFERINGS - PHYSICS

Phys 117 **INTRODUCTORY 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 **INTRODUCTORY PHYSICS** (4-3) 5
 A continuation of Phys 117. The course includes topics in electricity and magnetism, light and optics, and topics 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** (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 122; Math 231 should be taken concurrently.

Phys 218 **PHYSICS** (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 231 and Phys 217.

- Phys 220 **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 231.
- Phys 240 **OPTICS** (3-3) 4
 Laboratory experiments include experiments in both geometrical and physical optics. Emphasis is on precision measurement by optical techniques. Experiments include measurements with interferometer, laser, spectroscope, and diffraction grating.
Prerequisite: Phys 118 or 218; Math 231.
- Phys 254 **THEORETICAL MECHANICS** (4-0) 4
 A study of kinematics, statics, and dynamics of particles and rigid bodies.
Prerequisites: Phys 117 or 217; Math 232.
- Phys 261 **PRINCIPLES OF ELECTRICITY AND MAGNETISM** (4-3) 5
 The mathematical theory of electrical and magnetic phenomena
Prerequisites: Phys 118 or 218; Math 327.
- Phys 270 **HEAT AND THERMODYNAMICS** (3-0) 3
 The concepts of temperature, heat, and changes of state.
Prerequisites: Phys 117 or 217; Math 327.
- Phys 308 **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 320 **MODERN PHYSICS** (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. The laboratory includes various experiments in modern physics such as Millikan's oil drop ratio of e/m , Faraday effect, electron paramagnetic resonance, and nuclear magnetic resonance.
Prerequisites: Phys 118 or 218; Math 232.
- Phys 354 **ADVANCED TOPICS IN PHYSICS** 1-4
 Advanced material in various specialized areas of physics. During a trimester, material from one specific area will be treated. Class schedule will indicate the area.

Usually taught as demand arises.

Prerequisites: 200 series course(s) in specific subject area.

Phys 360 **SOLID STATE PHYSICS** (3-3) 4

An introduction to solid state theory in physics. Course includes such topics as crystal structure, dielectric and paramagnetic properties, diffraction of X-rays, Fermi surfaces, and an introduction to semiconductor physics. The laboratory includes experiments in X-ray photography and interpretation, measurement of specific heats, Hall effect, and investigations of electrical properties of semiconductors.

Prerequisites: Phys 218, 320; Math 232.

Phys 396 **SEMINAR** (2-0) 2

Students prepare and present library research papers.

Prerequisite: Approval of Department Chairman.

Phys 399 **INDEPENDENT STUDY** 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Approval of instructor.

PHYSICS

see **PHYSICAL SCIENCE**

POLITICAL SCIENCE

Professor Howard W. Johnston, Assistant Professors James C. Decker, LeRoy W. Goodwin.

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

Specific Departmental Requirements

PS 110 U.S. National Government: Power and Freedom in the Twentieth Century	3
PS 388 Contemporary Political Analysis	3
PS 396 Seminar, or PS 399 Independent Study	2
	8

Other Departmental Requirements

24 additional hours in Political Science	24	32
--	----	----

Auxiliary requirements from other departments

Hist 150 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

<i>Electives</i>	39-43
------------------	-------

TOTAL REQUIRED FOR GRADUATION	128
--------------------------------------	-----

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 AND FREEDOM IN THE TWENTIETH CENTURY	(3-0) 3
	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 130	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 220	U.S. PARTY AND INTEREST GROUP POLITICS	(3-0) 3
	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 282 **COMPARATIVE GOVERNMENTS** (3-0) 3
A comparative study of foreign national governments.
- PS 283 **COMPARATIVE GOVERNMENTS:
DEVELOPING NATIONS** (3-0) 3
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 386 **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.
- 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 396 **SEMINAR** (2-0) 2
Students prepare and present library research papers.
Prerequisite: Approval of Department Chairman.
- PS 399 **INDEPENDENT STUDY** 1-3
Individual research is conducted under the supervision of

a faculty member.

Prerequisite: Approval of instructor.

SPANISH

see FOREIGN LANGUAGES

SOCIOLOGY AND GEOGRAPHY

Associate Professor William J. Freitas; Assistant Professor Richard W. Beeson

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.

- Soc 101 **INTRODUCTION TO SOCIOLOGY**
An elementary survey of the field of Sociology including subject matter, methods, and theory.
- Soc 261 **COLLECTIVE BEHAVIOR** (3-0) 3
A descriptive and functional approach to human behavior in unstructured situations. Areas of consideration will include the crowd, the mass, and the public, with an analysis of the social condition necessary for their development and operation.
- Soc 263 **CONTEMPORARY SOCIAL PROBLEMS** (3-0) 3
A study of culture and its relation to specific social problems.
- 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 303 **PERSONALITY AND SOCIETY** (3-0) 3
An interactionist approach to society and personality. Areas of investigation include the structure of organized groups; social control; motivation, and socialization.
- 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. Harvey

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 151 Oral Interpretation of Literature	3	
Thea 181 Theatre Workshop	2	
Thea 247 History of the Theatre	5	
Thea 344 Theatre Production II	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	
Thea 126	ACTING	(1-2) 2
	A continuation of 125. Emphasis on character and characterization. <i>Prerequisite:</i> 125 or equivalent or permission of instructor.	
Thea 144	THEATRE PRODUCTION	(2-2) 3
	A lecture and laboratory course in the technical aspects of theatre production. Instruction and practical experience are provided in stage design, stagecraft, and lighting. Laboratory work is scheduled in relation to the major production for the trimester.	
Thea 181	THEATRE WORKSHOP	(0-2) 1
	This course is designed to give college credit for participation in theatre activities. Such credit may be obtained	

by participation in acting or technical work in experimental theatre or major college production. A minimum of two hours of supervised laboratory work each week is required. The course may be taken four (4) times for credit.

Thea 215 **FUNDAMENTALS OF PLAYWRITING** (3-0) 3

A course in the principles and practice of writing for the stage and dramatic material for television. The student is encouraged to take a two-hour lab in theatre workshop while enrolled in this course. The student should have a prior background in dramatic literature.

Thea 247 **HISTORY OF THE THEATRE** (5-0) 5

A study of the theatre from the ancient Greeks to the moderns. Emphasis will be on theatre scholarship, chief periods of dramatic literature, architectural development of the physical theatre, and the chief styles of acting and theatre production.

Thea 344 **THEATRE PRODUCTION II** (2-2) 3

A study of all elements of play production: production management, stage management, publicity, costumes and make-up; sound and the first steps in the organization and direction of the play. Students will gain practical experience as crew-heads for major college productions and workshops.

Prerequisite: Theatre 144 or consent of instructor.

English 258 Dramatic Literature and English 151 Oral Interpretation of Literature may also be taken for credit in Theatre.

**SCHOOL OF BUSINESS
ADMINISTRATION**

ACCOUNTING

BUSINESS ADMINISTRATION

BUSINESS EDUCATION

ECONOMICS

SECRETARIAL SCIENCE

Arthur K. Brintnall, Director

ACCOUNTING

Associate Professor Jerry M. Kaufman (on leave 1969-70); Assistant Professors Billie Don Cox, Manson P. Dillaway, Edward S. Freienmuth.

The objectives of the Department of 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>	
Acct 125 Elementary Accounting I	4
Acct 126 Elementary Accounting II	4
Acct 221 Intermediate Accounting I	3
Acct 222 Intermediate Accounting II	3
Acct 325 Cost Accounting I	3
Acct 330 Income Tax Accounting	3
Acct 333 Advanced Accounting	4
	24
<i>Other Departmental Requirements</i>	
Acct 336 Auditing	3
or	
Acct 337 Internship in Public Accounting	3
Acct I Elective	3
	6
	30

Auxiliary Requirements from Other Departments

Math 100 Mathematics for Liberal Arts	4	
or		
Math 121 Fundamentals of Mathematics	4	
BE 121 Business Communications	3	
BA 211 Business Law	3	
BA 251 Business Statistics	3	
Econ 261 Principles of Economics I	3	
Econ 262 Principles of Economics II	3	
BA-Econ 396 Seminar		
or		
BA-Econ 399 Independent Study	2	
	21	21

Electives 36

TOTAL REQUIREMENTS FOR GRADUATION 128

COURSE OFFERINGS

- Acct 125 **ELEMENTARY ACCOUNTING I** (3-2) 4
 Double-entry accounting, its meaning and purpose, is introduced. Accounting for business transactions from inception through the accounting cycle is covered. Specialized topics include: special journals; the voucher system; internal control; valuation of accounts and notes receivable; inventories; fixed assets and depreciation; manufacturing and payroll accounting.
- Acct 126 **ELEMENTARY ACCOUNTING II** (3-2) 4
 Major emphasis is on accounting for corporations which covers organization and operations; stock transactions; retained earnings; investments; and the flow of funds. Introduction to partnership, cost, and tax accounting are included.
- Acct 219 **MANAGERIAL ACCOUNTING** (3-0) 3
 The application of accounting information for principal purposes of making managerial decisions is stressed. Topics include: the analysis and interpretation of financial statements; budgeting for planning and control; cost behavior (cost-volume-profit relationships); relevant cost analysis for making long- and short-range capital expenditure decisions; and the impact of income taxes on management planning.
Prerequisite: Acct 126.

- Acct 221 **INTERMEDIATE ACCOUNTING I** (3-0) 3
The fundamental process of accounting is analyzed. The proper treatment of business transactions in the recording and analyzing phases is reviewed. The art of financial statement presentation is studied with particular emphasis being placed on the presentation of assets and current liabilities.
Prerequisite: Acct 126.
- Acct 222 **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: Acct 221
- Acct 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: Acct. 126.
- Acct 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: Acct 325.
- Acct 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: Acct 221 or consent of instructor.
- Acct 333 **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: Acct 222.
- Acct 334 **GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING** (3-0) 3
Fund accounting, budgetary accounts, and control are covered. The course also includes presentation of account-

- ing systems for governmental and institutional units.
Prerequisite: Consent of instructor.
- Acct 336 **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: Acct. 222 and consent of instructor.
- Acct 337 **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.
- Acct 338 **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-Econ **SEMINAR** (2-0) 2
396 Students prepare and present library research papers
Prerequisite: Senior standing and permission of instructor.
- BA-Econ **INDEPENDENT STUDY** 1-3
399 Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Director, School of Business Administration.

BUSINESS ADMINISTRATION

Professors Arthur K. Brintnall (Chairman beginning April 1970), Felix Muehlner (Acting Chairman until April 1970), Associate Professors Edward N. Dubois, Jerry M. Kaufman (on leave 1969-70); Assistant Professors Leonard Atencio, Manson P. Dillaway, Edward S. Freienmuth, Charles K. Staley.

The Business Administration program prepares the student for administrative positions in today's society. Courses are provided in

the areas of management, law, statistics, labor, marketing, finance, investments, insurance, and real estate.

The primary objectives of the department are: (1) to train students in careers in management, (2) to create responsible leaders, and (3) to give students an understanding of the economic structure in which they will live and work.

BACHELOR OF ARTS DEGREE WITH A MAJOR IN BUSINESS ADMINISTRATION

General Studies		41
<i>Specific Departmental Requirements</i>		
BA 101 Business Management		3
BA 211 Business Law		3
BA 251 Business Statistics I		3
BA 252 Business Statistics II		3
BA 305 Business Policies and Public Relations		3
BA 340 Marketing		3
BA-Econ 396 Seminar		
or		
BA-Econ 399 Independent Study		2
<i>Other Requirements</i>		
Choice of 6 hours from the following:		
BA 301 Personnel Management		3
BA 380 Corporation Finance		3
Acct 219 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 383 Investments		3
BA 386 Insurance		3
BA 389 Real Estate		3
Acct 221 Intermediate Accounting		3
Acct 325 Cost Accounting		3
Econ 356 Intermediate Economic Theory and Analysis		3
Econ 365 Monetary Economics		3
		6

*These 6 hours would be satisfied by taking all of the 12 hours in the first category

Auxiliary Requirements from other Departments

Econ 261 Principles of Economics I	3	
Econ 262 Principles of Economics II	3	
Acct 125 Elementary Accounting I	4	
Acct 126 Elementary Accounting II	4	
Appropriate Mathematics course	3	
	17	17

Electives 38

TOTAL REQUIRED FOR GRADUATION **128**

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.
Prerequisite: Accounting 125 or concurrent registration.
- BA 211 **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 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 and simple hypothesis testing, and an introduction to regression and correlation.
Prerequisite: One semester of mathematics.
- BA 252 **BUSINESS STATISTICS II** (3-0) 3
 A continuation of Business Statistics I. Topics covered include statistical decision theory, analysis of variance, multiple regression and correlation, time series analysis, and index number construction.
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 (Labor Economics)** (3-0) 3
Principles of labor bargaining and a critical examination of wages, unemployment, collective bargaining, wage regulations, and social insurance.

Prerequisite: BA 301.

- BA 305 **BUSINESS POLICIES AND PUBLIC RELATIONS** (3-0) 3

The first part of the course concerns the firm and other American institutions use, instead 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 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 380 **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: Acct 126 or concurrent registration.

- BA 383 **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 386 **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 389 **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 211.
- BA-Econ **SEMINAR** (2-0) 2
396 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- BA-Econ **INDEPENDENT STUDY** 1-3
399 Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Director, School of Business Administration

BUSINESS EDUCATION

Assistant Professor Aubrey Holderness; Instructor Alice Tochi

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

Specific Requirements in Business Education:

BE 108 Advanced Typing	2	
BE 112 Intermediate Shorthand	3	
BE 127 Advanced Shorthand & Transcription	3	
BE 121 Business Communications	3	
BE 131 Secretarial Procedures	3	
BE 144 Quantitative Business Techniques	2	
	16	

Other Requirements

Acct 125 Elementary Accounting I	4	
Acct 126 Elementary Accounting II	4	
Econ 261 Principles of Economics I	3	
BA 211 Business Law	3	
BA-Econ 396 Seminar or BA-Econ 399 Independent Study	2	
	16	32

Auxiliary Requirements from Other Departments

Appropriate Mathematics Course	4	
Education Courses (see secondary education section)	24	28

Electives 27

TOTAL REQUIRED FOR GRADUATION 128

ASSOCIATE OF ARTS DEGREE IN SECRETARIAL SCIENCE

General Studies

FS 101 Freshman Seminar	4	
FS 102 Freshman Seminar	4	
PE 101 Physical Activity	1	
PF 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

Acct 225 Principles of Accounting I	4	
Econ 261 Principles of Economics I	3	
BE 112 Intermediate Shorthand	3	
BE 127 Advanced Shorthand and Transcription	3	

BE 121 Business Communications	3
BE 131 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

Electives 9

TOTAL FOR OBTAINING ASSOCIATE OF ARTS DEGREE IN SECRETARIAL SCIENCE 64

COURSE OFFERINGS

- BE 8 **ELEMENTARY TYPING** (1-3) 0
 Mastery of the keyboard and development of speed and accuracy by the touch system. Upon successful completion of this course, the student will have the necessary skills to be able to pass the typing qualification examination. Taught by lab instructor.
- BA 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 121 **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 127 **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 131 **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: BF 108 or permission of instructor.

BF 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.

BF 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-Econ 396 **SEMINAR** (2-0) 2

Students prepare and present library research papers.

Prerequisite: Senior standing and permission of instructor.

BA-Econ 399 **INDEPENDENT STUDY** 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Approval of Director, School of Business Administration.

ECONOMICS

Professor Arthur K. Brintnall, Director, School of Business Administration; Associate Professor Edward N. Dubois, Assistant Professors Leonard Atencio, Richard Schaefer.

The Department of 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

Specific Departmental Requirements

Econ 261 Principles of Economics I

Econ 262 Principles of Economics II	3	
Econ 356 Intermediate Micro-theory	3	
Econ 364 Intermediate Macro-theory	3	
Econ 370 Quantitative Economics	3	
Ba-Econ 396 Seminar or BA-Econ Independent Study	2	
	17	
<i>*Other Departmental Requirements</i>		
Any 5 of the following courses:		
Econ 361 Managerial Economics	3	
Econ 365 Monetary Economics	3	
Econ 367 Comparative Economics Systems	3	
Econ 368 History of Economic Thought	3	
Econ 369 Public Finance	3	
Econ 371 International Economics	3	
Econ 375 Regional Economics	3	
	15	32
<i>**Auxiliary Requirements from Other Departments</i>		
BA 251 Business Statistics I	3	
BA 252 Business Statistics II	3	
	6	6
<i>Electives</i>		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 380 Corporation Finance	3
Aect 219 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.

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 368 **HISTORY OF ECONOMIC THOUGHT** (3-0) 3

An analysis of economic thought. The writing of Plato, Aristotle, Xenophon through Mercantilist 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 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 370 **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 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 375 **REGIONAL ECONOMICS** (3-0) 3
 A study in the economic structure, stability and growth of regional and urban economies. 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-Econ 396 **SEMINAR** (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor.
- BA-Econ 399 **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

PHYSICAL EDUCATION

SECONDARY EDUCATION

PSYCHOLOGY

Donald F. Whalen, Director

EDUCATION TEACHER EDUCATION PROGRAM

Professors Willard O. Bowman, Donald F. Whalen, N.G. Tate (Chairman); Assistant Professors Jimmy A. Gage, Burch N. McFarland, Charles H. Reid, Jr., Bruce A. Watt.

The teacher education program, within the setting of a liberal arts college, 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 teacher 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 competency of teaching personnel.

ADMISSION TO THE PROGRAM

The student makes application for admission to the program. This is ordinarily accomplished during his fourth trimester at Fort Lewis College.

The Advisory Selection Committee, in considering an application for admission to the teacher education program, takes into consideration these factors: English language proficiency, character, and personal adjustment; physical fitness, completion of necessary course work and scholarship.

The second step in admission to the program is the successful completion of Ed 250 Teacher Education Admissions Seminar.

Students transferring to Fort Lewis College from other collegiate institutions will be accepted for the teacher education program, de-

pending upon their prior preparation. Inquiries about courses still needed for teacher preparation are welcomed and may be addressed to Director of Teacher Education at Fort Lewis College.

SECONDARY EDUCATION PROGRAM

General Studies		41
Courses in major academic field		32-42
A second academic area is strongly recommended		20-24
<i>Specific Departmental Requirements</i>		
Ed 207 Education in America	3	
Ed 302 Secondary Education	4	
Ed 380 Methods of Teaching (subject matter)	2	
Ed 395 Laboratory Experience and Seminar in the Secondary School	8	
	15	15
<i>Additional Departmental courses recommended</i>		
Ed 320 Instructional Media	3	
Ed 325 Guidance in the Public Schools	3	
	6	6
<i>Auxiliary Requirements from other departments</i>		
Psych 157 General Psychology	3	
or		
Psych 218 Psychological Foundations of Education	3	
	6	6
<i>Electives</i>		18-28
TOTAL REQUIRED FOR GRADUATION		128

ELEMENTARY EDUCATION

BACHELOR OF ARTS WITH A MAJOR IN ELEMENTARY EDUCATION

General Studies		41
<i>Specific Departmental Requirements</i>		
Ed 250 Teacher Education Admissions Seminar	3	
Ed 255 Language Arts in the Elementary School	3	
Ed 260 Reading in the Elementary School	3	
Ed 305 Mathematics in the Elementary School	3	
Ed 310 Science in the Elementary School	3	
Ed 315 Social Studies in the Elementary School	3	
Ed 385 Laboratory Experience and Seminar in		

the Elementary School	8	
Additional approved course in Education	3	
	29	29
<i>Auxiliary requirements from other departments</i>		
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 227 Children's Literature	4	
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 GRADUATION 140

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.

COURSE OFFERINGS

- Ed 207 **EDUCATION IN AMERICA** (3-0) 3
Designed for students desiring information about the American school system and for prospective teachers. Topics covered are introduction to education, history and philosophy of education, school organization and administration, characteristics of successful teachers, teaching as a profession, and observation of teaching.
- ED 250 **TEACHER EDUCATION ADMISSIONS SEMINAR** (3-0) 3
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 be admitted to the Teacher Education Program during this course.
Prerequisite: At least 30 hours of college credit.
- Ed 255 **LANGUAGE ARTS IN THE ELEMENTARY SCHOOL** (3-0) 3
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 250 or prior approval of instructor.
- 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 250 or prior approval of instructor.
- Ed 302 **SECONDARY EDUCATION** (4-0) 4
Organization and management of instruction and the principles of teaching as applied to the secondary school; observation of secondary school classes; case studies; and

- Ed 305 materials of instruction including audio-visual aids.
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 prior approval of instructor.
- Ed 310 **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 prior 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 prior 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 prior 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 prior approval of instructor.
- Ed 330 **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 prior approval of instructor.

Ed 365 **EDUCATIONAL MEASUREMENT** (3-0) 3

A presentation of the applications of measurement and its contributions to and usefulness in the educational program.

Prerequisite Admission to Teacher Education Program and Psych 218, or prior approval of instructor.

Ed 380 **METHODS OF TEACHING (SUBJECT MATTER AREAS)** (2-0) 2

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.

Ed 385 **LABORATORY EXPERIENCE AND SEMINAR IN THE ELEMENTARY SCHOOL** (1-15) 8

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 395 **LABORATORY EXPERIENCE AND SEMINAR IN THE SECONDARY SCHOOL** 8

Includes observation, participation, teaching, and allied activities under the direction of a selected regular teacher in a secondary school in consultation with College supervisors. The application for student teaching must be approved prior to registration for Ed 395.

Ed 399 **INDEPENDENT STUDY** 1-3

Individual research is conducted under the supervision of a faculty member.

Prerequisite: Approval of Department Chairman.

PHYSICAL EDUCATION

Associate professors Louis C. Cullen, Adolph M. Kuss, Instructors Clinton R. Ewald, Carol Meyer, Roland O. Pearson, Janice Ruth 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

Specific Departmental Requirements

PE 111 Intro. to Health, PE & Recreation	4
PE 254 Adapted Physical Education	2
PE 242 Physical Education in Elementary School	3
PE 243 Health & Safety Education	3
PE 244 Kinesiology	3
PE 360 Physiology of Exercise	3
PE 396 Seminar or PE 399 Independent Study	2
	20

Other Departmental Requirements

12 additional hours of physical education courses, six of which must be other than "theory" courses.	12	32
--	----	----

Activity Course Requirements

Men: Tumbling-Gymnastics and Weight Training-Wrestling	
Women: Tumbling-Gymnastics, Rhythms & Modern Dance, Team Field Games, Team Court Games	2-8 2-8

Auxiliary Requirements from other Departments

Bio 121 Human Anatomy & Physiology	3	3
------------------------------------	---	---

Electives 37-43

TOTAL REQUIRED FOR GRADUATION 128

MINOR FOR SECONDARY TEACHERS

A minor is offered for students wishing to seek certification in field other than their major. Specific requirements are:

20 hours of Physical Education courses including PE 111 and PE 243.

COURSE OFFERINGS

PF 101	PHYSICAL ACTIVITY	(0-2) 1
	Seasonal physical activities during each trimester for men or for women.	
PF 102	PHYSICAL ACTIVITY	(0-2) 1
	A continuation of 101.	
PF 103	PHYSICAL ACTIVITY	(0-2) 1
	A continuation of 102.	
PE 111	INTRODUCTION TO HEALTH, PHYSICAL EDUCATION AND RECREATION	(4-0) 4
	History and principles of the three general fields are covered as well as laws, professional organizations, and careers.	
PF 124	FIRST AID	(2-0) 2
	First aid is taught; those who complete the course are eligible to receive the advanced American Red Cross certificate.	
PE 200	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 major injuries.	
PE 207	THEORY & COACHING OF TEAM SPORTS	(5-0) 5
	This course devotes equal time to the following team sports for men: football, basketball, baseball, track and wrestling. The rules, officiating procedures, organization of practices, psychology of coaching, facilities and equipment necessary for each of these sports are covered.	
PE 216	THEORY & TEACHING OF INDIVIDUAL AND DUAL SPORTS	(4-0) 4
	The rules and officiating procedures as well as teaching techniques for the following activities for men and women are covered: tennis, badminton, golf, archery, gymnastics, bowling, skiing, and weight lifting.	
PF 242	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 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** (3-0) 3
 A study of the principles of mechanics and anatomy in relation to human movement.
- PE 254 **ADAPTED PHYSICAL EDUCATION** (2-0) 2
 Relating the physical education program to students who deviate from normal physical status. Basic corrective training programs are covered.
- PE 261 **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 265 **WATER SAFETY INSTRUCTORS COURSE** (3-0) 3
 Fundamental skills of swimming and diving, course designed to qualify students for the Red Cross Water Safety Instructor's certificate.
- 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: Bio 121, Human Anatomy and Physiology.
- PE 370 **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 396 **SEMINAR** (2-0) 2
 Students prepare and present library research papers.
Prerequisite: Approval of instructor.
- PE 399 **INDEPENDENT STUDY** 1-3
 Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman.

PSYCHOLOGY

Professor Willard O. Bowman (Chairman), Associate Professors, Frank D. Tikalsky, Edwin W. Wallace; Assistant Professor Robert M. Wageman; Instructor Nicholas J. Heidy

The discipline of psychology focuses attention on problems involved in the understanding, prediction and control of animal and human behavior. The major phenomena of mind and behavior are treated in terms of research findings and current theories of motivation, perception, thinking and learning. The basic information essential for dealing with practical psychological problems, can best be acquired through experimental analysis of behavior. Students are encouraged to proceed scientifically in developing analytical attitudes.

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 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 396 Seminar or Psych 399 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 372 Psychology of Personality	3
Psych 381 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 227 **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 254 **DEVELOPMENTAL PSYCHOLOGY** (3-0) 3
 Principles of development in childhood and adolescence.
Prerequisite: Psychology 158 or Psychology 218 or consent of instructor.

- Psych 287 **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 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 277)
A study of the cultural determinants of perception and behavior.
Prerequisite: Psychology 158 or consent of instructor.
- Psych 372 **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 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 381 **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 396 **SEMINAR** (2-0) 2
Students prepare and present library research papers.
Prerequisite: Senior standing and permission of instructor
- Psych 399 **INDEPENDENT STUDY** 1-3
Individual research is conducted under the supervision of a faculty member.
Prerequisite: Approval of Department Chairman.

CENTER OF SOUTHWEST STUDIES

MAJOR IN SOUTHWEST STUDIES

with concentrations in

ANTHROPOLOGY

HISTORY

SPANISH

Robert W. Delaney, Director

SOUTHWEST STUDIES

Professors Robert W. Delaney (Chairman), John C. Ives, Associate Professor, William Freitas.

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 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.

MINOR FOR 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 150 Survey of American History to 1865 3
- Hist 150 Survey of American History since 1865 3

Hist 160 Survey of Latin American History (Colonial)	3	
Hist 370 History of Mexico	3	
Hist 380 History of the Southwest	3	
Hist 380 Transmississippi West or Hist 380 20th Century U.S.	3	
	18	
(Hist 141, 142 History of Indians of the Southwest, may be substituted for one or two of the following courses: Hist 370 History of Mexico, Hist 380 Transmississippi West, Hist 380 20th Century U.S.)		
<i>Language Requirement</i>		
Competence in Spanish equal to 12 hrs. above Elementary Spanish I & II.	9	
FL 395 Translation of Historical Documents	3	
	12	
<i>Anthropology Requirements</i>		
At least two courses dealing with anthropology of the Southwest as approved by the Committee	6	
<i>Literature and Sociology Requirements</i>		
Two of the following required:		
Engl 280 Literature of the American West	3	
Engl 276 Folklore of the Southwest	3	
Soc 279 The Hispano in the Southwest	3	
	6	
<i>Science Requirements</i>		
At least two courses selected from the biological and physical sciences which have to do with the Southwest	6	
<i>Research Requirements</i>		
SW 301 Problems in Southwest Studies	3	
SW 302 Problems in Southwest Studies	3	
	6	54
<i>Electives</i>		33
TOTAL REQUIRED FOR GRADUATION		128
BACHELOR OF ARTS DEGREE WITH A MAJOR IN SOUTHWEST STUDIES ANTHROPOLOGY EMPHASIS		
General Studies		41
<i>Anthropology Requirements</i>		
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 281 Indian 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 380. 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

Spanish Requirements

Foreign Language competency equivalent to FL 216 Intermediate Spanish II 14

FL 395 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

History Requirements

Hist 160 Survey of Latin American 3

Hist 370 History of Mexico 3

Hist 380 History of the Southwest 3

(Hist 141 or 142 History of Indians of the Southwest may be substituted for Hist 370 History of Mexico)

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 141, 142	SOCIAL AND POLITICAL HISTORY OF INDIANS OF THE SOUTHWEST	(3-0) 3
	These courses are the same as Hist 141, 142. See History.	
SW 301	PROBLEMS IN SOUTHWEST STUDIES I	(3-0) 3
	A senior-level individual research project in any discipline based on the needs and interests of the individual. <i>Prerequisite:</i> Approval of Committee	
SW 302	PROBLEMS IN SOUTHWEST STUDIES II	(3-0) 3
	Same as above.	
SW 365	HISPANIC CIVILIZATION	(3-0) 3
	Contributions of Spain and Portugal to the building of Western Civilization. Topics include: Great Age of Exploration; Golden Age of Spanish-Portuguese Civilization; masterworks of literature; and History of Ideas.	
SW 375	HISPANIC AMERICAN CIVILIZATION	(3-0) 3
	The literature, culture, thought, art, anthropology history, geography and contemporary position of Hispanic-American Civilization.	

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

THE REGISTER

February, 1970

THE STATE BOARD OF AGRICULTURE

	ADDRESS	TERM EXPIRES
Dr. W. P. Ball	Durango	'73
Carl Breeze	Kremmling	'71
Edward C. Hofmann	Littleton	'77
John G. Holtorf	Yuma	'73
Kenneth W. Monfort	Greeley	'77
Arthur C. Sheely	Fort Collins	'71
Dr. John W. Thimmig	Brighton	'75
Carlyle N. Vickers	Denver	'75
His Excellency, Governor John A. Love)		

A. Ray Chamberlain, President) Ex-Officio Members
Colorado State University)

OFFICERS

John W. Thimmig	President
Dr. W. P. Ball	Vice-President
Charles L. Terrell	Secretary
J. R. Hehn	Treasurer
Daniel E. Black	Deputy Treasurer
John E. Bush	Resident Counsel

ADMINISTRATIVE STAFF

Rexer Berndt President	James J. Jones, Manager Auxiliary Services
Daniel E. Black Business Manager	James A. Johnson, Director Information and Services
James B. Bowra Admissions Counselor	Howard W. Johnston Associate Dean of Faculty
Arthur K. Brintnall, Director School of Business Administration	Merle Joosten Assistant to the Business Manager
Robert W. Delaney, Director Center of Southwest Studies	Chant D. Lee Student Finance Officer
James Dezendorf Assistant Business Manager	Robert L. Motsch, Director Computer Center
Bennie W. Edmondson Controller	Allen J. Murdock, Director of Physical Plant and College Engineer
Raymond J. Heaton Assistant Controller	Paul W. Pixler Dean of Faculty
Nicholas J. Heidy Associate Dean of Students and Educational Adviser	Charles H. Reid, Jr., Director Admissions and Records
Billie Helms Accountant	Betty Shoulders Associate Dean of Students

Donovan F. Snyder
Assistant Director of Admissions
and Records

Jack Sylvester
Bookstore Manager

Norvell G. Tate, Director
Teacher Education

Randall D. Taylor
Assistant Dean of Faculty

Edwin W. Wallace
Assistant to the President and
Dean of Students

Donald F. Whalen
Director, School of Education

Joseph Wolcott
Coordinator of Campus Life

Alan Yoder
Programmer

TO BE APPOINTED, 1970-71:
Director, School of Arts and
Sciences

LIBRARY STAFF

Richard L. Gobble, Director
Sandra Graham
Jeanne Johnston
Esther T.C. Liu

STUDENT HEALTH SERVICES

Louisa T. Helms, R.N.
College Nurse

Leo W. Lloyd, M.D.
Tullius W. Halley, M.D.
Robert C. Pivonka, M.D.

EMERITI

LORY, CHARLES A., PRESIDENT EMERITUS

Ped. B., Colorado State Normal School; B.S., University of Colorado; M.S., University of Colorado; L.L.D., University of Colorado; D.Ed., Colorado State College of Education; D.Sc., University of Denver, D.Sc., Colorado State University.

HERSHBERGER, INEZ, INSTRUCTOR OF LANGUAGES EMERITUS

A.B., Kalamazoo College

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

ACADEMIC FACULTY

February, 1970

(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
- Atencio, Leonard D.** Asst. Professor of Economics and Business 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)
B.S.C.E., University of New Mexico, 1965
M.S., University of New Mexico, 1966
- Beeson, Richard W** Asst. Professor of Sociology (1966)
B.A., University of New Mexico, 1962
M.A., University of New Mexico, 1964
All work completed for Ph.D., University of N.M.
- Benson, Stephen E.** Asst. Professor of Philosophy (1968)
A.B., University of Colorado, 1958
M.A., University of Colorado, 1962
Ph.D. candidate, University of Colorado
- Berg, David** Assoc. Professor of Speech (1953)
B.A., Colorado College, 1951
M.S., University of Utah, 1952
Advanced graduate work, University of Oregon and Stanford University
- Berndt, Rexer** President (1969)
B.S., University of Denver, 1949
MBA, 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
- 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 Education (1958)
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 in Mathematics, Intercultural Program
(1968)
B.A., University of Denver, 1960
Master of Teaching, Southeastern State College,
- 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
- Bushnell, Donald D.** Assoc. Professor of Mathematics (1960)
B.S., Kearney State College, 1951
M.A., Colorado State College, 1957
Ed.D., Colorado State College, 1969
- Campbell, Myrtis T.** Instructor in English, Intercultural Program (1969)
A.B., Boston University, 1952
M.A., University of California at L.A., 1970
- Cater, Harold Dean** Visiting Professor of History, (1970)
A.B., Syracuse University, 1933
M.A., Columbia University, 1939
Ph.D., Columbia University, 1946
- Cox, Billie Don** Asst. Professor of Accounting and Business Adm.
(1968)
B.B.A., Baylor University, 1961

- M.B.A., Baylor University, 1968
C.P.A., Colorado, September, 1965
- Cullen, Louis C.** Assoc. Professor of Physical Education (1963)
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** Asst. 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
- 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
- Downey, Ralph A.** Asst. Professor of Music (1969)
B.S., Music Ed., Lebanon Valley College, 1949
M.M., Music Ed., University of Montana, 1965
Candidate for Ed.D., University of Montana; degree
expected, August 1970

- Dubois, Edward N.** Assoc. Professor of Business and Economics (1968)
B.A., University of Wyoming, 1946
M.B.A., University of Pennsylvania, 1948
Ph.D. complete except thesis, University of Pennsylvania
- Eccher, Sam C.** Instructor in English (1967)
B.S., Regis College, 1954
M.A., Colorado State College, 1966
- 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
- Englehart, Stanton** Asst. Professor of Art (1961)
B.F.A., University of Colorado, 1960
M.F.A., University of Colorado, 1968
- 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
- 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)
LL.B., University of Colorado, 1949
C.P.A., Colorado, October, 1964
- Freitas, William J.** Assoc. Professor of Foreign Language (1969)
B.A., U.S.M.M. Academy, 1944
M.A., Stanford University, 1950
Ph.D., Stanford University, 1958
- 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
- Gobble, Richard L.** Assoc. Professor, Director of Library (1967)
B.S.B.A. (Bus. Ad.), University of Denver, 1948
M.A., University of Denver, 1950
- Goodwin, LeRoy W.** Asst. Professor of Government (1957)
B.A., University of Colorado, 1947
M.A., University of Colorado, 1955
Ph.D. candidate, Columbia University; degree expected June, 1970
- Graham, Sandra D.** Instructor; Librarian (1969)
B.A., Western State College, 1964
M.A., University of Denver, 1967
- 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
- Harvey, Judy L.** Instructor in Speech and Theater (1969)
B.S., Texas Woman's University, 1967
M.A., Texas Woman's University, 1968
- Heidy, Nicholas J.** Instructor in Psychology; Assoc. Dean
of students and Educational Adviser (1962)
A.B., Adams State College, 1962
M.A., Adams State College, 1964
- Holderness, Aubrey E.** Asst. Professor of Business Education (1965)
B.A., Adams State College, 1962
M.A., Adams State College, 1965
Further graduate study, Colorado State College

- Howard, Lyle** Asst. Professor of Languages (1957)
B.A., Kansas State Teachers College, 1930
M.A., Western State College, 1939
- 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
- Johnston, Howard W.** Professor of Political Science, Associate
Dean of Faculty (1969)
B.A., Coe College, 1935
M.A., Columbia University, 1947
Ph.D., Columbia University, 1956
- Johnston, Jeanne S.** Assoc. Professor: Librarian (1969)
B.A., Coe College, 1941
B.S. in L.S., Columbia University, 1942
M.A., Columbia University, 1946
- Jones, Roland C.** Asst. Professor of English (1967)
B.A., University of Michigan, 1956
M.A., Northern Arizona University, 1963
Ph.D. candidate, Michigan State University,
degree expected 1971.
- Kaufman, Jerry M.
(on leave)** Assoc. Professor of Business (1963)
B.S., Southwestern State College of Oklahoma, 1959
M.S., Oklahoma State University, 1961
C.P.A., 1962
Currently working on Ph.D., 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)
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
- Martin, Jeanette** Asst. Professor of English (1959)
B.A., University of Colorado, 1933
M.A., University of Colorado, 1937
Work toward Ph.D., University of Utah
- Maxfield, Perry L.** Asst. Professor of Chemistry (1966)
B.A., Brigham Young University, 1961
Ph.D., University of New Hampshire, 1965
- McFarland, Burch N.** Asst. Professor of Education (1969)
B.A., Howard Payne College, 1940
M.E., University of Texas at El Paso, 1959
Work toward doctorate New Mexico State University,
Degree expected 1970.
- Meyer, Carol M.** Instructor in Women's Physical Education (1969)
B.A., Carroll College, 1962
M.A., Colorado State College, 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
- Muehlner, Felix** Visiting Professor of Business Administration (1969)
NA, University of Frankfurt, Germany, 1922
UJD, Frederick William University, 1926
- O'Keefe, Ralph Dale** Assoc. Professor of English (1965)
B.A., Loyola University, 1938
M.F.A., Yale University, 1947
- 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

- Pearson, Roland O.** Instructor in Physical Education (1968)
B.S., University of Illinois, 1962
M.S., University of Illinois, 1965
- 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
- Pierce, Mary Eleanor** Instructor in English, Intercultural Program (1967)
B.A., Wellesley College, 1937
M.A., Columbia University, 1965
- 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
- Reed, John Frederick
(on leave)** Professor of Botany; President Emeritus (1962)
B.A., Dartmouth College, 1933
M.A., Duke University, 1935
Ph.D., Duke University, 1936
- Reeder, Ray M.** Asst. 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
- Roberts, Marda-Ruth** Instructor in Spanish (1967)
B.A., Valparaiso University, 1964
M.A., University of Arizona, 1967
- Rodriguez, Manuel A. (on leave)** Asst. Professor of Spanish (1965)
B.A., Union College, Schenectady, N.Y., 1947
M.A., Texas Western College, 1964
Now completing doctorate University of Madrid
- Rohde, Otto J.** Asst. Professor of Engineering (1964)
B.S., U.S. Military Academy, 1935
M.S. in C.E., Mass. Institute of Technology, 1937
- Root, Homer E.** Scholar in Residence (Archaeology) (1966)
B.A., Denver University, 1921
M.Th., Hiff School of Theology, 1925
- Rosenberg, Harry C.** Asst. Professor of Mathematics (1964)
B.A., Colorado State College, 1956
M.A., Colorado State College, 1957
M.A., University of Illinois, 1964
Work toward doctorate, N.M. State University
- Ross, Arlan K.** Instructor in Chemistry (1969)
B.S., Winona (Minn.) State College, 1960
M.S., Mankato State college, 1969
- Ruland, Albert C.** Assoc. Professor of Music (1964)
A.B., Western State College of Colorado, 1934
M.A., University of Southern California, 1947
- Schaefer, Richard K.** Asst. Professor of Economics (1969)
B.S., University of Colorado, 1960
Ph.D., Colorado State University, 1969
- Schwartz, Lucienne (DeSimplaire)** Instructor in French (1967)
Diploma, Brussels Conservatory, 1945
B.M., University of Wyoming, 1964
M.A., University of Wyoming, 1965
M.A., University of Colorado, 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
- Spangenberg, Donald** Asst. Professor of Industrial Arts (1957)
B.A., Kearney State Teachers College, 1950
M.A., Colorado State College, 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 Administration (1967)
B.S., Colorado State University, 1962
M.S., Colorado State College, 1967
- Stevenson, Douglas K.** Instructor in English, Intercultural Program (1968)
B.A., Kalamazoo College, 1965
M.A., University of Kansas, 1968
- Stocker, Harold E.** Instructor in Mathematics (1967)
B.A., Fort Lewis College, 1965
M.A., University of Wyoming, 1967
- Tate, N.G.** Professor of Secondary Education; Director
of Teacher Education (1962)
B.A., New Mexico Highlands University, 1929
M.A., University of New Mexico, 1934
Ed.D., University of Southern California, 1952
- 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., Northern Colorado University, 1966

- Tochi, Alice J.** Instructor in Business Education (1968)
B.A., Colorado State College, 1960
M.A., Colorado State College, 1961
- 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 President;
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
Work toward doctorate, University of Texas;
degree expected 1971
- Wayt, Buford** Instructor, Director, Intercultural Program (1967)
A.B., Western State College, 1943
M.A., Western State College, 1950
- Weaver, Patricia E.** Instructor in Music (1969)
M.B., Baylor University, 1955
M.M., University of Illinois, 1958
- Whalen, Donald F.** Professor of Education;
Director, School of Education
Director of Athletics (1959)
B.S., Bus. Adm., Northern Arizona University, 1954
M.A., Education, Northern Arizona University, 1955
Doctorate in Health and Safety Education,
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

PART-TIME FACULTY

- 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

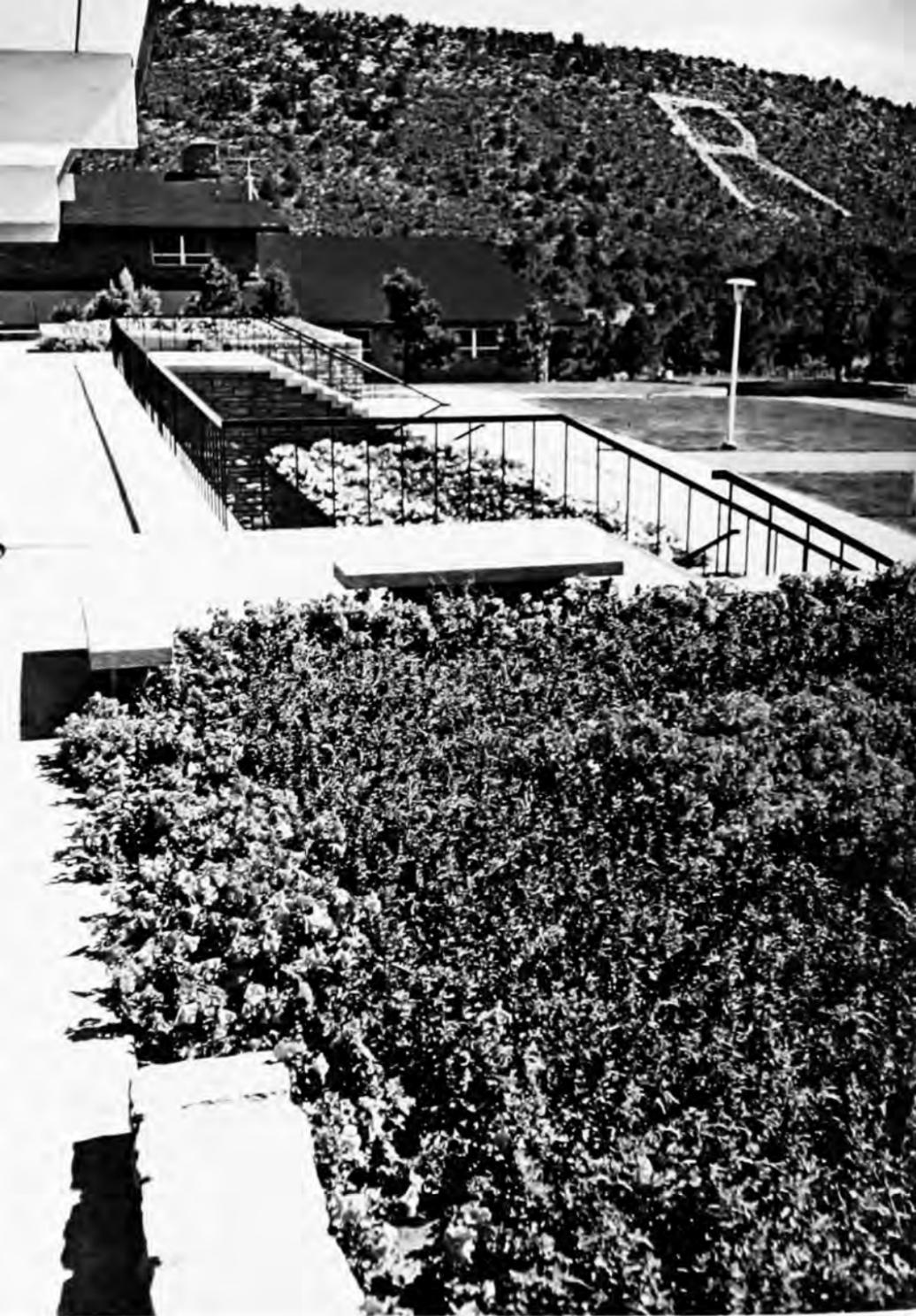
- Mills, Leon R.** Instructor in Animal Science (1969)
 B.S., Colorado State University, 1954
 M.S., Colorado State University, 1956
- Moore, Howard D.** Asst. Professor of Agronomy (1968)
 B.S., Colorado State University, 1963
 M.S., Montana State University, 1968

INDEX

Academic performance	37	Classification of students	38
Accounting	99	College	11
Administrative Staff	131	Computer Center	14
Admission	15	Costs	19
Admission, How to apply for	15	Courses of study	41
Adm. of Amer. Indian Students	15	Credit through special examination	38
Adult education	33		
Agriculture	44	Dean's List	40
Anthropology	45	Distribution requirements	35
Art	47	Donors to student aid funds	20
Attendance	37		
Auditing privileges	37	Early Admission	18
		Economics	109
Biological Science	50	Education	115
Business Administration	102	Elective Courses	36
Business Education	106	Elementary Education program	117
		Engineering	59
Center of Southwest Studies	14	English	63
Changes in programs of study	37	Enrollment	11
Chemistry	56	Examinations	38

Faculty	11	Industrial Arts	76
Faculty list	133	Interdisciplinary Studies	75,86
Financial aid	19	Latin	69
Foreign Languages	67	Library	13
Foreign students	17	Loans	21
Forestry	72	Majors	36
Former students	17	Mathematics	77
Foundation, Fort Lewis College	14	Military service, credit for	38
French	67	Music	82
Freshman seminars	41	Organization pattern of the College	30
General Studies program	34	Organizations, Student	23
Geography	95	Pass-Fail electives	40
Geology	88	Payment of charges	19
German	67	Philosophy	84
Grading	38	Philosophy of the College	12
Graduation with honors	40	Physical Education	120
Graduation requirements	33	Physical Plant	11
Grants-in-aid	19	Physical Science	86
History	73	Physics	89
Housing	29	Political Science	92
Humanities	75	Psychology	124
Independent Study	40		

Register	130
Registration	37
Satisfactory academic progress	41
Scholarships	19
School of Arts and Sciences	43
School of Business Administration	98
School of Education	114
Secondary Education program	116
Secretarial Science	107
Sociology	95
Southwest Studies	127
Spanish	69
Speech	63
State Board of Agriculture	130
Study Load	41
Teacher Education program	115
Theatre	95
Transcripts	41
Transfer students	16
Trimester academic calendar	13
Unclassified students	17



A view on the Fort Lewis College campus taken from the front of the Library. In the background is a portion of the Student Union Building and the large "R" for the Fort Lewis College Raiders.